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# CD27 Monoclonal Mouse Antibody (LPFS2/1611)

## Product Description

This antibody recognizes a protein of a disulfide-linked 120 kDa dimer, identified as CD27. It is expressed on the majority of peripheral T cells, medullary thymocytes, memory-type B cells, and natural killer cells. It is a transmembrane phosphoglycoprotein that belongs to the tumor necrosis factor receptor (TNFR) superfamily. CD27 binds to its ligand CD70, a member of the TNF family, and induces T-cell co-stimulation and B-cell activation. It also interacts with TRAFs and is involved in activation of NFkB and SAPK/JNK and induces apoptosis.

Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the [CF® Dye Brochure](#) for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

**Stock status:** Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email [order@biotium.com](mailto:order@biotium.com) to inquire about stock status and lead times before placing your order.

**Catalog number key for antibody number 1611, Anti-CD27 (LPFS2/1611)**

### Product attributes

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antibody number                       | #1611                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Antibody reactivity (target)          | CD27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Antibody type                         | Primary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Host species                          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Clonality                             | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Clone                                 | LPFS2/1611                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Isotype                               | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Molecular weight                      | 120 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Synonyms                              | LPFS2; S152; T cell activation antigen S152; T-cell activation antigen CD27; T14; TNFRSF7; TNFSF7; Tp55; Tumor necrosis factor receptor superfamily member 7                                                                                                                                                                                                                                                                                                                                                         |
| Human gene symbol                     | CD27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Entrez gene ID                        | 939                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| SwissProt                             | P26842                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Unigene                               | 355307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Immunogen                             | Recombinant human CD22 protein (exact sequence is proprietary)                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Antibody target cellular localization | Plasma membrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Verified antibody applications        | Flow (verified), IF (verified), IHC (FFPE) (verified)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Species reactivity                    | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Antibody application notes            | Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Immunofluorescence: 0.5-1 ug/mL. Immunohistology (formalin): 0.5-1 ug/mL. Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Tris buffer with 1 mM EDTA pH 9.0 for 10-20 min followed by cooling at RT for 20 min. Flow Cytometry 0.5-1 ug/million cells/0.1 mL. Optimal dilution for a specific application should be determined by user |
| Positive control                      | Human peripheral blood lymphocytes. Human tonsil and lymph node.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Shipping condition                    | Room temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Storage Conditions                    | Store at 2 to 8 °C. Protect fluorescent conjugates from light. Note: store BSA-free antibodies at -10 to -35 °C                                                                                                                                                                                                                                                                                                                                                                                                      |
| Shelf life                            | Guaranteed for at least 24 months from date of receipt when stored as recommended                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Regulatory status                     | For research use only (RUO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Antibody/conjugate formulation        | Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide                                                                                                                                                                                                                                                                                                                    |
| Antibody research areas               | Immunology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Product origin                        | Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.                                                                                                                                                                                                                                                                                                                                      |
| Cell/tissue expression                | Lymphocytes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Antibody # prefix | Conjugation        | Ex/Em (nm) | Laser line | Detection channel        | Dye Features                     |
|-------------------|--------------------|------------|------------|--------------------------|----------------------------------|
| BNC04             | CF®405S            | 404/431    | 405        | DAPI (microscopy), AF405 | <a href="#">CF®405S Features</a> |
| BNC88             | CF®488A            | 490/515    | 488        | GFP, FITC                | <a href="#">CF®488A Features</a> |
| BNC68             | CF®568             | 562/583    | 532, 561   | RFP, TRITC               | <a href="#">CF®568 Features</a>  |
| BNC94             | CF®594             | 593/614    | 561        | Texas Red®               | <a href="#">CF®594 Features</a>  |
| BNC40             | CF®640R            | 642/662    | 633-640    | Cy®5                     | <a href="#">CF®640R Features</a> |
| BNC47             | CF®647             | 650/665    | 633-640    | Cy®5                     | <a href="#">CF®647 Features</a>  |
| BNC74             | CF®740             | 742/767    | 633-685    | 775/50                   | <a href="#">CF®740 Features</a>  |
| BNCB              | Biotin             | N/A        | N/A        | N/A                      |                                  |
| BNUB              | Purified           | N/A        | N/A        | N/A                      |                                  |
| BNUM              | Purified, BSA-free | N/A        | N/A        | N/A                      |                                  |

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