

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CD27 Ligand in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant human CD27 Ligand is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant mouse CD27 Ligand/TNFSF7 Gln47-Pro195 Accession # O55237
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Neutralization	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

CD27 ligand (CD27L), also named CD70, is a type II transmembrane glycoprotein belonging to the TNF superfamily (TNFSF) and has been designated TNFSF7 (1, 2). Mouse CD27L cDNA encodes a 195 amino acid (aa) residue protein with a 23 aa N-terminal cytoplasmic domain, a 21 transmembrane domain and a 151 aa C-terminal extracellular domain. Mouse and human CD27L share approximated 56% aa sequence identity. By analogy to other TNFSF ligands, CD27L is expected to exist as non-covalent homotrimers. The expression of CD27L is highly regulated at the transcription and posttranslational level (3). CD27L cell surface expression is induced by antigen receptor activation in B cells and at low levels in mouse T cells. Although CD27L expression is not detected on human dendritic cells (DC), membrane expression on mature mouse DCs has been reported. CD27L expression is also present in the thymus medulla in both human and mouse. CD27L interacts with CD27, a member of the TNF receptor superfamily that is expressed on natural killer (NK) cells and subsets of T and B cells (2, 4, 5). Ligation of CD27 on T cells provides costimulatory signals that are required for T cell proliferation, clonal expansion, and the promotion of effector T cell formation (2). Ligation of CD27 on mouse B cell has been shown to inhibit terminal differentiation of activated B cells into plasma cells and enhances commitment to memory B cell responses (5, 6). On NK cells, ligation of CD27 induces proliferation and IFN-γ production (4).

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.