

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse 4-1BB in direct ELISAs and Western blots. In direct ELISAs, this antibody shows no cross-reactivity with recombinant mouse (rm) BAFF R, rmCD27, rmCD30, rmCD40, rmDR3, rmEDAR, rmFas, rmGITR, rmLTβR, rmNGF R, rmOPG, rmRANK, rmTAJ, rmTNF R
Source	Monoclonal Rat IgG _{2A} Clone # 158321
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse 4-1BB Val24-Leu187 Accession # P20334
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

Agonist Activity 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

4-1BB is a type I transmembrane protein belonging to the TNF receptor superfamily. It has been designated TNFRSF9 and is also known as CD137. 4-1BB is expressed on T cells, NK cells, monocytes, neutrophils, dendritic cells, and eosinophils. The ligand for 4-1BB, 4-1BBL, is a TNF ligand superfamily member (TNFSF9) expressed on the surfaces of activated antigen presenting cells and T and B lymphoma cell lines. 4-1BB transduces a T cell costimulatory signal to promote survival, proliferation, cytokine production, and effector function. On dendritic cells, 4-1BB ligation enhances cytokine production and upregulates expression of B7-1 and B7-2 costimulatory molecules.

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.