

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 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 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.

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