

Datasheet for ABIN2689441
anti-CD8b.2 antibody



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Overview

Quantity:	0.5 mg
Target:	CD8b.2 (CD8BP)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This CD8b.2 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	BD Pharmingen™
Immunogen:	Mouse thymus or spleen
Clone:	53
Isotype:	IgG1 kappa
Characteristics:	The 53-5.8 antibody reacts with the β chain of the CD8 differentiation antigen (Ly-3.2 or Lyt-3.2) of most mouse strains, having weak reactivity with Ly-3.1 strains (e.g., AKR, C58, MRL, PL). The CD8 α and α' chains (CD8a) form heterodimers with the CD8 β chain (CD8b, Ly-3, or Lyt-3) on the surface of most thymocytes. A subpopulation of mature T lymphocytes (i.e., MHC class I-restricted T cells, including most T suppressor/cytotoxic cells) expresses almost exclusively the CD8 $\alpha\beta$ heterodimer (the α' chain is absent). Subsets of $\gamma\delta$ TCR-bearing T cells, intestinal

Product Details

intraepithelial lymphocytes, and dendritic cells express CD8a without CD8b. It has been suggested that the expression of the CD8a/CD8b heterodimer is restricted to T lymphocytes which matured in the thymus or in an extrathymic environment that had been influenced by thymus-initiated neuroendocrine signals. CD8 is an antigen coreceptor on the T-cell surface which interacts with MHC class I molecules on antigen-presenting cells. It participates in T-cell activation through its association with the T-cell receptor complex and protein tyrosine kinase lck (p56lck). This antibody is routinely tested by flow cytometric analysis. Other applications were tested during antibody development only or reported in the literature.

BD Pharmingen™ Purified Rat Anti-Mouse CD8b.2 - Purified - Clone 53-5.8 - Isotype Rat IgG1, κ - Reactivity Ms - 0.5 mg

Purification: The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target: CD8b.2 (CD8BP)

Alternative Name: CD8b.2 ([CD8BP Products](#))

Background: Synonyms: Ly-3.2

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Concentration: 0.5 mg/mL

Buffer: Aqueous buffered solution containing ≤0.09 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Store undiluted at 4°C.

Publications

Product cited in: Shigemoto, Abe, Nomura, Nakanishi, Hirano: "Antibodies inactivating mGluR1 metabotropic glutamate receptor block long-term depression in cultured Purkinje cells." in: **Neuron**, Vol. 12, Issue 6, pp. 1245-55, (1994) ([PubMed](#)).

Masu, Tanabe, Tsuchida, Shigemoto, Nakanishi: "Sequence and expression of a metabotropic glutamate receptor." in: **Nature**, Vol. 349, Issue 6312, pp. 760-5, (1991) ([PubMed](#)).

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