

Datasheet for ABIN2689442  
**anti-CD8b.2 antibody (Biotin)**

18 Publications

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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 conjugated to Biotin
Application:	Flow Cytometry (FACS)

## Product Details

Brand:	BD Pharmingen™
Immunogen:	Mouse thymus or spleen
Clone:	53
Isotype:	IgG1 kappa
Characteristics:	<p>The 53-5.8 antibody reacts with the <math>\beta</math> 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 <math>\alpha</math> and <math>\alpha'</math> chains (CD8a) form heterodimers with the CD8 <math>\beta</math> 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 <math>\alpha\beta</math> heterodimer (the <math>\alpha'</math> chain is absent). Subsets of <math>\gamma\delta</math> TCR-bearing T cells, intestinal 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</p>

## Product Details

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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™ Biotin Rat Anti-Mouse CD8b.2 - Biotin - 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

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**Target:** CD8b.2 (CD8BP)

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

**Background:** Synonyms: Ly-3.2

## Application Details

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

**Restrictions:** For Research Use only

## Handling

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**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.

**Handling Advice:** The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.

**Storage:** 4 °C

**Storage Comment:** Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

## Publications

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- Product cited in: Vicari, Zlotnik: "Mouse NK1.1+ T cells: a new family of T cells." in: **Immunology today**, Vol. 17, Issue 2, pp. 71-6, (1996) ([PubMed](#)).
- Bendelac, Killeen, Littman, Schwartz: "A subset of CD4+ thymocytes selected by MHC class I molecules." in: **Science (New York, N.Y.)**, Vol. 263, Issue 5154, pp. 1774-8, (1994) ([PubMed](#)).
- Saint-Ruf, Ungewiss, Groettrup, Bruno, Fehling, von Boehmer: "Analysis and expression of a cloned pre-T cell receptor gene." in: **Science (New York, N.Y.)**, Vol. 266, Issue 5188, pp. 1208-12, (1994) ([PubMed](#)).
- Groettrup, von Boehmer: "T cell receptor beta chain dimers on immature thymocytes from normal mice." in: **European journal of immunology**, Vol. 23, Issue 6, pp. 1393-6, (1993) ([PubMed](#)).
- Lefrancois: "Phenotypic complexity of intraepithelial lymphocytes of the small intestine." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 147, Issue 6, pp. 1746-51, (1991) ([PubMed](#)).
- There are more publications referencing this product on: [Product page](#)