Datasheet for ABIN2749077

anti-CD8B antibody (PE)

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Overview

Quantity:	0.1 mg
Target:	CD8B
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD8B antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	CD8 positive Wistar rat splenic T cell hybridomas
Clone:	341
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody 341 (also known as 34.1) recognizes rat CD8b, the 32-34 kDa beta chain of the CD8 coreceptor (extracellular epitope), expressed on T cell subsets and some other cell types, such as macrophages.
Cross-Reactivity (Details):	Rat
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD8B

Target Details

Alternative Name:	CD8b (CD8B Products)
Background:	CD8b molecule,The CD8b (CD8 beta) subunit of CD8 T cell coreceptor is expressed in CD8 alpha/beta heterodimers on majority of MHC I-restricted conventional T cells and thymocytes and in CD8 alpha/alpha homodimers on subsets of memory T cells, intraepithelial lymphocytes, NK cells, macrophages, mast cells, and dendritic cells. Regulation of CD8 beta level on T cell surface seems to be an important mechanism to control their effector function. Assembly of CD8 alpha/beta but not alpha/alpha dimers is connected with formation or localization to the lipid rafts. Recruiting triggered TCR complexes to these membrane microdomains as well as affinity of TCR to MHC I is modulated by CD8, thereby affecting the functional diversity of the TCR signaling.,Ly-3, Ly-C, Lyt-3
Gene ID:	926
UniProt:	P10966
Pathways:	TCR Signaling

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-5 µg/mL.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Restrictions:	For Research Use only

Handling

Concentration:	0.5 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM 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 at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Mabarrack, Turner, Mayrhofer: "Recent thymic origin, differentiation, and turnover of regulatory

Publications

T cells." in: **Journal of leukocyte biology**, Vol. 84, Issue 5, pp. 1287-97, (2008) (PubMed).

Nohara, Kulka, Déry, Wills, Hirji, Gilchrist, Befus: "Regulation of CD8 expression in mast cells by exogenous or endogenous nitric oxide." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 167, Issue 10, pp. 5935-9, (2001) (PubMed).

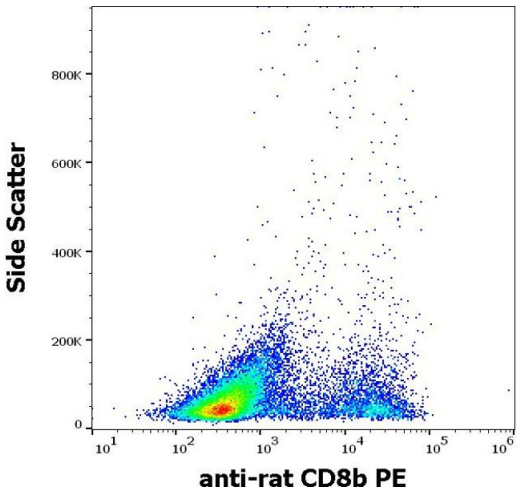
Ellerman, Like: "Islet cell membrane antigens activate diabetogenic CD4+ T-cells in the BB/Wor rat." in: **Diabetes**, Vol. 48, Issue 5, pp. 975-82, (1999) (PubMed).

Lin, Hirji, Nohara, Stenton, Gilchrist, Befus: "Mast cells express novel CD8 molecules that selectively modulate mediator secretion." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 161, Issue 11, pp. 6265-72, (1998) (PubMed).

Kraus, Lambracht, Wonigeit, Hünig: "Negative regulation of rat natural killer cell activity by major histocompatibility complex class I recognition." in: **European journal of immunology**, Vol. 26, Issue 11, pp. 2582-6, (1997) (PubMed).

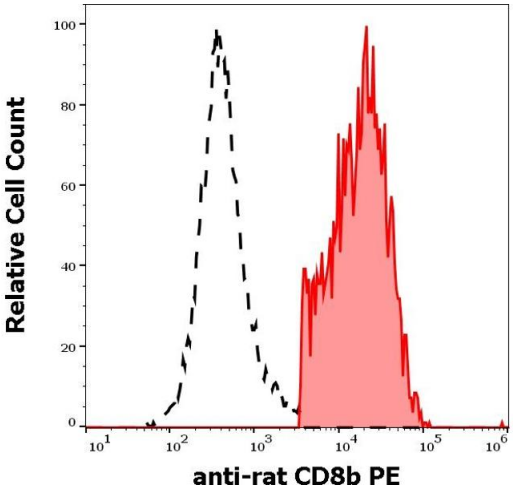
There are more publications referencing this product on: Product page

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of rat splenocyte suspension stained using anti-rat CD8b (341) PE antibody (concentration in sample 3 µg/mL).



Flow Cytometry

Image 2. Separation of rat CD8b positive cells (red-filled) from CD8b negative cells (black-dashed) in flow cytometry analysis (surface staining) rat splenocyte suspension stained using anti-rat CD8b (341) PE antibody (concentration in sample 3 µg/mL).

