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Datasheet for ABIN1027698
anti-CD8 alpha antibody

2 Images

8 Publications

Overview

Quantity:	0.1 mg
Target:	CD8 alpha (CD8A)
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD8 alpha antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin- embedded Sections) (IHC (p))

Product Details

Immunogen:	High Mw glycoproteins from rat thymocytes
Clone:	OX-8
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody OX-8 recognizes the hinge-like membrane-proximal extracellular domain of rat CD8a (32-34 kDa, alpha chain of the CD8 antigen).
Cross-Reactivity (Details):	Rat
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	CD8 alpha (CD8A)
Alternative Name:	CD8a (CD8A Products)
Background:	<p>CD8a molecule, The CD8a (CD8 alpha) 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 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-2, Ly-B, Ly-35, Lyt-2</p>
Gene ID:	24930
UniProt:	P07725
Pathways:	TCR Signaling

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL
Restrictions:	For Research Use only

Handling

Concentration:	1 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.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:

Pino, OSullivan-Murphy, Lidstone, Yang, Lipson, Jurczyk, dilorio, Brehm, Mordes, Greiner, Rossini, Bortell: "CHOP mediates endoplasmic reticulum stress-induced apoptosis in Gimap5-deficient T cells." in: **PLoS ONE**, Vol. 4, Issue 5, pp. e5468, (2009) ([PubMed](#)).

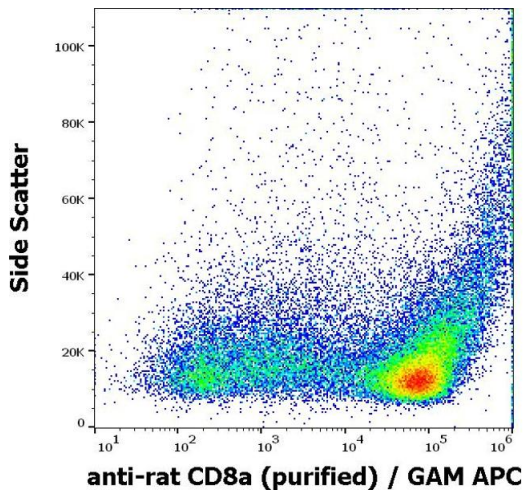
Abe, Urakami, Ostanin, Zibari, Hayashida, Kitagawa, Grisham: "Induction of Foxp3-expressing regulatory T-cells by donor blood transfusion is required for tolerance to rat liver allografts." in: **PLoS ONE**, Vol. 4, Issue 11, pp. e7840, (2009) ([PubMed](#)).

Katsumata, Harigai, Sugiura, Kawamoto, Kawaguchi, Matsumoto, Kohyama, Soejima, Kamatani, Hara: "Attenuation of experimental autoimmune myositis by blocking ICOS-ICOS ligand interaction." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 179, Issue 6, pp. 3772-9, (2007) ([PubMed](#)).

Ishida, Usui, Yamashiro, Kaji, Amano, Ogura, Hida, Oguchi, Ambati, Miller, Gragoudas, Ng, DAmore, Shima, Adamis: "VEGF164-mediated inflammation is required for pathological, but not physiological, ischemia-induced retinal neovascularization." in: **The Journal of experimental medicine**, Vol. 198, Issue 3, pp. 483-9, (2003) ([PubMed](#)).

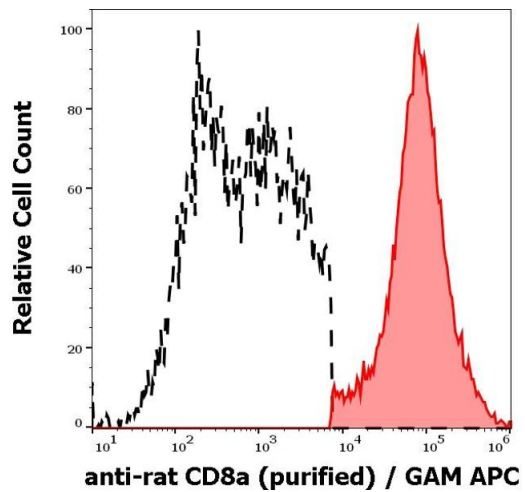
Mitnacht, Bischof, Torres-Nagel, Hünig: "Opposite CD4/CD8 lineage decisions of CD4+8+ mouse and rat thymocytes to equivalent triggering signals: correlation with thymic expression of a truncated CD8 alpha chain in mice but not rats." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 160, Issue 2, pp. 700-7, (1998) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of rat thymocyte suspension stained using anti-rat CD8a (OX-8) purified antibody (concentration in sample 0,32 µg/mL) GAM APC.



Flow Cytometry

Image 2. Separation of rat CD8a positive thymocytes (red-filled) from CD8a negative thymocytes (black-dashed) in flow cytometry analysis (surface staining) of rat thymocyte suspension stained using anti-rat CD8a (OX-8) purified antibody (concentration in sample 0,32 µg/mL) GAM APC.