

Datasheet for ABIN2749035
anti-CD8 alpha antibody

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Overview

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

Product Details

Immunogen:	Murine spleen cells
Clone:	53-6-7
Isotype:	IgG2a kappa
Specificity:	The rat monoclonal antibody 53-6.7 recognizes an extracellular epitope of murine CD8a (32-34 kDa, alpha chain of the CD8 antigen).
Cross-Reactivity (Details):	Mouse
Purification:	Purified by protein-G affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)
Endotoxin Level:	Endotoxin level is less than 0.01 EU/μg of the protein, as determined by the LAL test.

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, BB154331</p>
Gene ID:	12525
UniProt:	P01731
Pathways:	TCR Signaling

Application Details

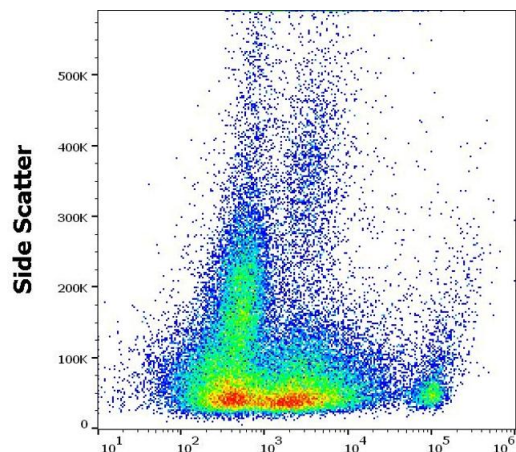
Application Notes:	<p>Functional application: Isolation and depletion of CD8+ cells, blocking of cytotoxicity, inhibition of CD8+ T cell proliferation.</p> <p>Flow cytometry: Recommended dilution: 1.5 µg/mL.</p> <p>Immunohistochemistry (frozen sections): Recommended dilution: 1:1000, formaldehyde fixation is not recommended, acetone fixation is preferred.</p>
Restrictions:	For Research Use only

Handling

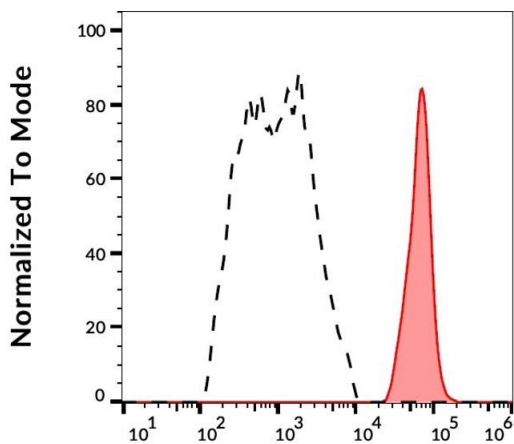
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

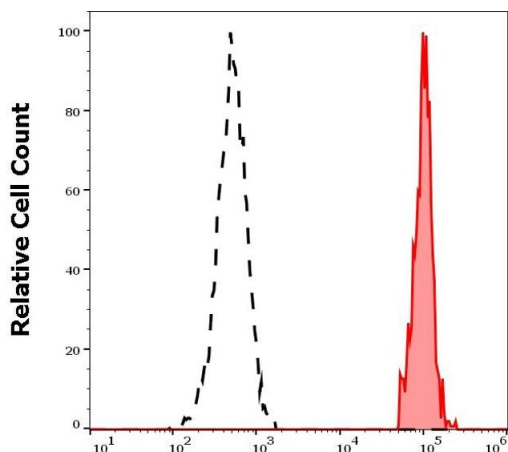
- Product cited in: Mochimaru, Usui, Yaguchi, Nagahama, Hasegawa, Usui, Shimmura, Tsubota, Amano, Kawakami, Ishida: "Suppression of alkali burn-induced corneal neovascularization by dendritic cell vaccination targeting VEGF receptor 2." in: **Investigative ophthalmology & visual science**, Vol. 49, Issue 5, pp. 2172-7, (2008) ([PubMed](#)).
- Bouwer, Alberti-Segui, Montfort, Berkowitz, Higgins: "Directed antigen delivery as a vaccine strategy for an intracellular bacterial pathogen." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 103, Issue 13, pp. 5102-7, (2006) ([PubMed](#)).
- Kamimura, Sawa, Sato, Agung, Hirano, Murakami: "IL-2 in vivo activities and antitumor efficacy enhanced by an anti-IL-2 mAb." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 177, Issue 1, pp. 306-14, (2006) ([PubMed](#)).
- Hata, Sakaguchi, Yoshitomi, Iwakura, Sekikawa, Azuma, Kanai, Moriizumi, Nomura, Nakamura, Sakaguchi: "Distinct contribution of IL-6, TNF-alpha, IL-1, and IL-10 to T cell-mediated spontaneous autoimmune arthritis in mice." in: **The Journal of clinical investigation**, Vol. 114, Issue 4, pp. 582-8, (2004) ([PubMed](#)).
- Grabbe, Varga, Beissert, Steinert, Pendl, Seeliger, Bloch, Peters, Schwarz, Sunderkötter, Scharffetter-Kochanek: "Beta2 integrins are required for skin homing of primed T cells but not for priming naive T cells." in: **The Journal of clinical investigation**, Vol. 109, Issue 2, pp. 183-92, (2002) ([PubMed](#)).
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anti-mouse CD8a (purified low endotoxin) / DAR PE



CD8a (mouse) PUR / DAR PE



anti-mouse CD8a (purified low endotoxin) / DAR PE

Flow Cytometry

Image 1. Flow cytometry surface staining pattern of murine splenocyte suspension stained using anti-mouse CD8a (53-6.7) purified antibody (low endotoxin, concentration in sample 3 µg/mL) DAR PE.

Flow Cytometry

Image 2. Flow cytometry analysis (surface staining) of murine splenocytes with anti-mouse CD8a (53-6.7) purified, DAR-PE.

Flow Cytometry

Image 3. Separation of murine CD8a positive splenocytes (red-filled) from myeloid cells (black-dashed) in flow cytometry analysis (surface staining) of murine splenocyte suspension stained using anti-mouse CD8a (53-6.7) purified antibody (low endotoxin, concentration in sample 3 µg/mL) DAR PE.