

Product datasheet

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ARG65386 anti-CD8b antibody [341]

Package: 100 μg Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [341] recognizes CD8b

Tested Reactivity Rat

Tested Application FACS, FuncSt, IHC-Fr, IP, WB

Specificity The clone 341 (also known as 34.1) recognizes rat CD8b, the 32-34 kDa beta chain of the CD8

coreceptor, expressed on T cell subsets and some other cell types, such as macrophages.

Host Mouse

Clonality Monoclonal

 Clone
 341

 Isotype
 IgG1

 Target Name
 CD8b

Immunogen CD8 positive Wistar rat splenic T cell hybridomas

Conjugation Un-conjugated

Alternate Names LY3; CD8B1; CD antigen CD8b; LEU2; T-cell surface glycoprotein CD8 beta chain; P37; LYT3

Application Instructions

| Application table | Application | Dilution |
|-------------------|---|-----------------|
| | FACS | 1.5 µg/ml |
| | FuncSt | Assay-dependent |
| | IHC-Fr | Assay-dependent |
| | IP | Assay-dependent |
| | WB | Assay-dependent |
| Application Note | Functional studies: Macrophage stimulation, in vitro blocking of allogenic responses. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

Properties

| Form | Liquid | |
|--------------|--|--|
| Purification | Purified from cell culture supernatant by protein-A affinity chromatography. | |
| Purity | > 95% (by SDS-PAGE) | |
| Buffer | PBS (pH 7.4) and 15 mM Sodium azide | |
| Preservative | 15 mM Sodium azide | |

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GeneID: 24931 Rat

Swiss-port # P05541 Rat

Gene Symbol Cd8b

Gene Full Name CD8b molecule

Background 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.

Function Identifies cytotoxic/suppressor T-cells that interact with MHC class I bearing targets. CD8 is thought to

play a role in the process of T-cell mediated killing. [UniProt]

Highlight Related products:

CD8 antibodies; CD8 ELISA Kits; CD8 Duos / Panels; Anti-Mouse IgG secondary antibodies;

Related news:

New antibody panels and duos for Tumor immune microenvironment

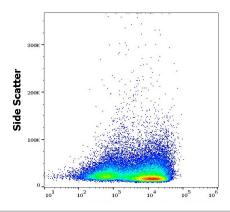
Tumor-Infiltrating Lymphocytes (TILs)

Research Area Immune System antibody

Calculated Mw 24 kDa

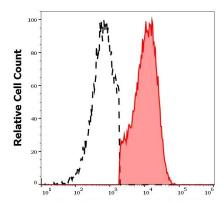
PTM Phosphorylated as a consequence of T-cell activation.

Images



ARG65386 anti-CD8b antibody [341] FACS image

Flow Cytometry: Rat splenocytes suspension stained with ARG65386 anti-CD8b antibody [341] at 1 $\mu g/ml$ dilution, followed by PEconjugated Goat anti-Mouse antibody.



ARG65386 anti-CD8b antibody [341] FACS image

Flow Cytometry: Separation of Rat CD8b positive splenocytes (red-filled) from CD8b negative splenocytes (black-dashed). Rat splenocyte suspension stained with ARG65386 anti-CD8b antibody [341] at 1 $\mu g/ml$ dilution, followed by PE-conjugated Goat anti-Mouse antibody.