ARG65387
anti-CD8b antibody [341] (FITC)

Package: 100 µg
Store at: 4°C

Summary

Product Description	FITC-conjugated Mouse Monoclonal antibody [341] recognizes CD8b
Tested Reactivity	Rat
Tested Application	FACS
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	FITC
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 - 4 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification Note	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	0.5 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. 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.