

InVivo Anti-Mouse CD8a/Lyt2 Antibody (2.43)

CatalogNo: YV0023

| Key Features

Host Species

- Rat

Reactivity

- Mouse

Applications

- In vivo

Isotype

- IgG2b

| Storage

Storage*

Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8°C for frequent use. Store at -20 to -80°C for twelve months from the date of receipt.

Formulation

0.01M PBS, pH 7.4.

| Recommended Dilution Ratios

| Basic Information

Purity

Endotoxin level <1 EU/mg. Purity>95% as determined by SDS-PAGE.

Clonality

Monoclonal

| Immunogen Information

| Target Information

Gene name

CD8A MAL

Protein Name	T-cell surface glycoprotein CD8 alpha chain (T-lymphocyte differentiation antigen T8/Leu-2) (CD antigen CD8a)		
	Organism	Gene ID	UniProt ID
	Human	925 ;	P01732 ;
Cellular Localization	[Isoform 1]: Cell membrane ; Single-pass type I membrane protein. CD8A localizes to lipid rafts only when associated with its partner CD8B. .; [Isoform 2]: Secreted .		
Tissue specificity	CD8 on thymus-derived T-cells usually consists of a disulfide-linked alpha/CD8A and a beta/CD8B chain. Less frequently , CD8 can be expressed as a CD8A homodimer. A subset of natural killer cells , memory T-cells , intraepithelial lymphocytes , monocytes and dendritic cells expresses CD8A homodimers. Expressed at the cell surface of plasmacytoid dendritic cells upon herpes simplex virus-1 stimulation.		
Function	Disease:Defects in CD8A are a cause of familial CD8 deficiency (CD8 deficiency) [MIM:608957]. Familial CD8 deficiency is a novel autosomal recessive immunologic defect characterized by absence of CD8+ cells , leading to recurrent bacterial infections. ,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. CD8 alpha chains binds to class I MHC molecules alpha-3 domains. ,online information:CD8 entry ,online information:CD8A mutation db ,PTM:All of the five most carboxyl-terminal cysteines form inter-chain disulfide bonds in dimers and higher multimers , while the four N-terminal cysteines do not. ,similarity:Contains 1 Ig-like V-type (immunoglobulin-like) domain. ,subunit:In general heterodimer of an alpha and a beta chain linked by two disulfide bonds. Can also form homodimers. Shown to be expressed as heterdimer on thymocytes and as homodimer on peripheral blood T-lymphocytes. Interacts with the MHC class I HLA-A/B2M dimer. Interacts with LCK in a zinc-dependent manner. ,		

Validation Data

Contact information

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