

Anti-CD8 Antibody (Monoclonal, CA-8)
Catalog # ABO10412**Specification**

Anti-CD8 Antibody (Monoclonal, CA-8) - Product Information

Application	IHC-F
Primary Accession	P05541
Host	Mouse
Isotype	Mouse IgG2a
Reactivity	Human
Clonality	Monoclonal
Format	Lyophilized

Description

Mouse IgG monoclonal antibody for CD8, CD8a molecule; CD8b molecule (CD8A; CD8B) detection. Tested with IHC-F in Human. No cross reactivity with other proteins.

Reconstitution

Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Anti-CD8 Antibody (Monoclonal, CA-8) - Additional Information

Gene ID 24931

Other Names

T-cell surface glycoprotein CD8 beta chain, CD8 antigen 37 kDa chain, OX-8 membrane antigen, CD8b, Cd8b, Cd8b1

Calculated MW

23400 MW KDa

Application Details

Immunohistochemistry(Frozen Section), 1 µg/ml, Human

Subcellular Localization

Membrane; Single-pass type I membrane protein.

Protein Name

T-cell surface glycoprotein CD8 alpha chain; T-cell surface glycoprotein CD8 beta chain

Contents

Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN₃ as preservative.

Immunogen

Human thymocytes followed by peripheral blood T cells.

Purification

Ascites

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities

Contains 1 Ig-like V-type (immunoglobulin-like) domain.

Anti-CD8 Antibody (Monoclonal, CA-8) - Protein Information

Name Cd8b

Synonyms Cd8b1

Function

Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class I molecule:peptide complex. The antigens presented by class I peptides are derived from cytosolic proteins while class II derived from extracellular proteins. Interacts simultaneously with the T-cell receptor (TCR) and the MHC class I proteins presented by antigen presenting cells (APCs). In turn, recruits the Src kinase LCK to the vicinity of the TCR-CD3 complex. A palmitoylation site in the cytoplasmic tail of CD8B chain contributes to partitioning of CD8 into the plasma membrane lipid rafts where signaling proteins are enriched. Once LCK recruited, it initiates different intracellular signaling pathways by phosphorylating various substrates ultimately leading to lymphokine production, motility, adhesion and activation of cytotoxic T-lymphocytes (CTLs). Additionally, plays a critical role in thymic selection of CD8+ T-cells.

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P10966}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P10966} Note=Requires the partner CD8A for efficient cell surface expression The heterodimer CD8A/CD8B localizes to lipid rafts due to CD8B cytoplasmic tail palmitoylation. {ECO:0000250|UniProtKB:P10966}

Anti-CD8 Antibody (Monoclonal, CA-8) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-CD8 Antibody (Monoclonal, CA-8) - Images

Anti-CD8 Antibody (Monoclonal, CA-8) - Background

The human lymphocyte differentiation antigen CD8 is encoded by a single gene that gives rise to a

33- to 34-kDa glycoprotein expressed on the cell surface as a dimer and in higher molecular mass forms.