

## Anti-CD8 alpha Rabbit Monoclonal Antibody Catalog # ABO13958

### Specification

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#### Anti-CD8 alpha Rabbit Monoclonal Antibody - Product Information

Application	IHC
Primary Accession	<a href="#">P01732</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-CD8 alpha Rabbit Monoclonal Antibody . Tested in IHC application. This antibody reacts with Human.

#### Anti-CD8 alpha Rabbit Monoclonal Antibody - Additional Information

Gene ID 925

#### Other Names

T-cell surface glycoprotein CD8 alpha chain, T-lymphocyte differentiation antigen T8/Leu-2, CD8a, CD8A, MAL

#### Calculated MW

25729 MW KDa

#### Application Details

IHC 1:50-1:200

#### Subcellular Localization

Isoform 1: Cell membrane; Single-pass type I membrane protein.

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human CD8 alpha

#### Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

#### Anti-CD8 alpha Rabbit Monoclonal Antibody - Protein Information

**Name** CD8A

**Synonyms** MAL

### **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. LCK then initiates different intracellular signaling pathways by phosphorylating various substrates ultimately leading to lymphokine production, motility, adhesion and activation of cytotoxic T- lymphocytes (CTLs). This mechanism enables CTLs to recognize and eliminate infected cells and tumor cells. In NK-cells, the presence of CD8A homodimers at the cell surface provides a survival mechanism allowing conjugation and lysis of multiple target cells. CD8A homodimer molecules also promote the survival and differentiation of activated lymphocytes into memory CD8 T-cells.

### **Cellular Location**

[Isoform 1]: Cell membrane; Single-pass type I membrane protein Note=CD8A localizes to lipid rafts only when associated with its partner CD8B.

### **Tissue Location**

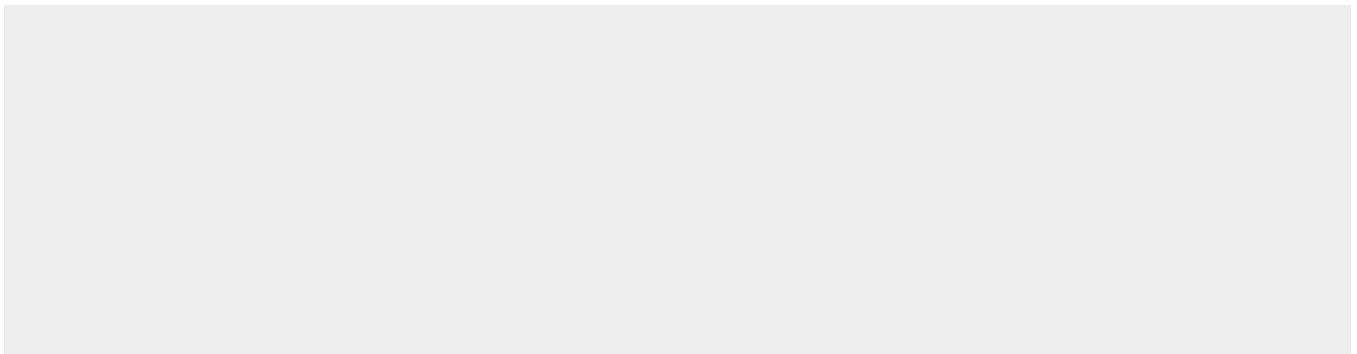
CD8 on thymus-derived T-cells usually consists of a disulfide-linked alpha/CD8A and a beta/CD8B chain. Less frequently, CD8 can be expressed as a CD8A homodimer. A subset of natural killer cells, memory T-cells, intraepithelial lymphocytes, monocytes and dendritic cells expresses CD8A homodimers. Expressed at the cell surface of plasmacytoid dendritic cells upon herpes simplex virus-1 stimulation

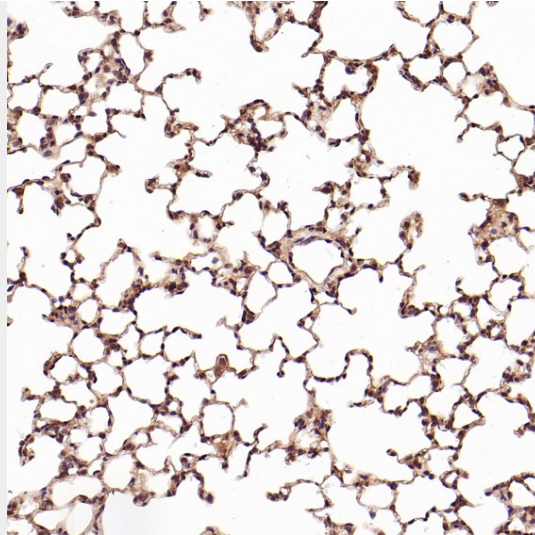
## **Anti-CD8 alpha Rabbit Monoclonal Antibody - Protocols**

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

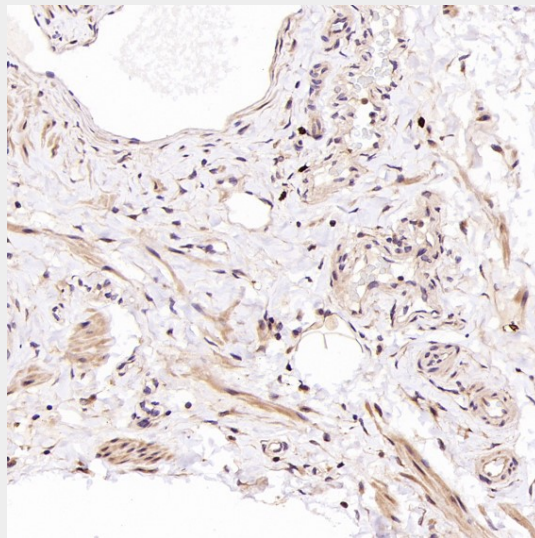
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Anti-CD8 alpha Rabbit Monoclonal Antibody - Images**

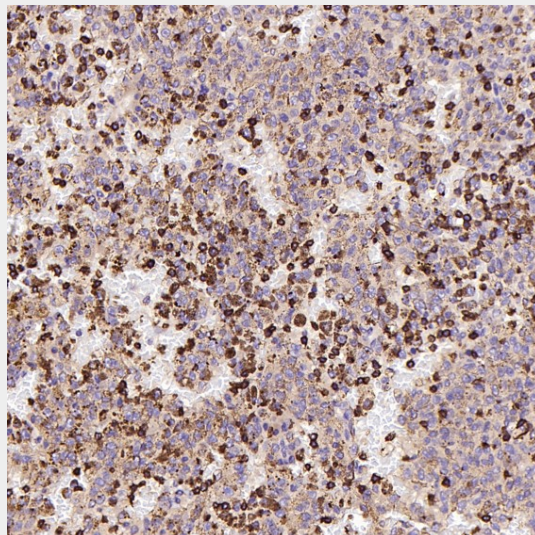




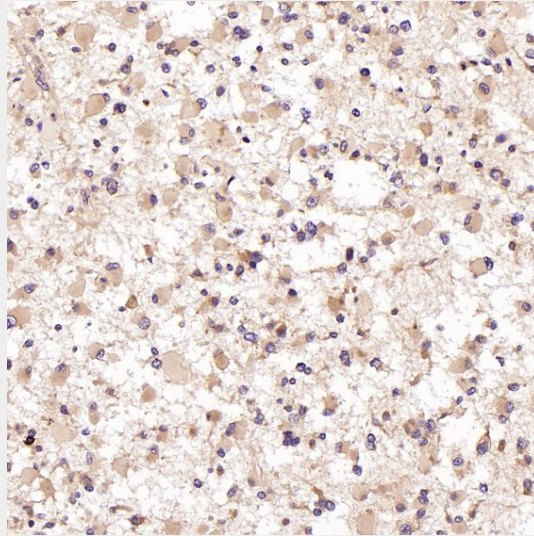
Immunohistochemical analysis of paraffin-embedded Rat liver, using the Antibody at 1:100 dilution.



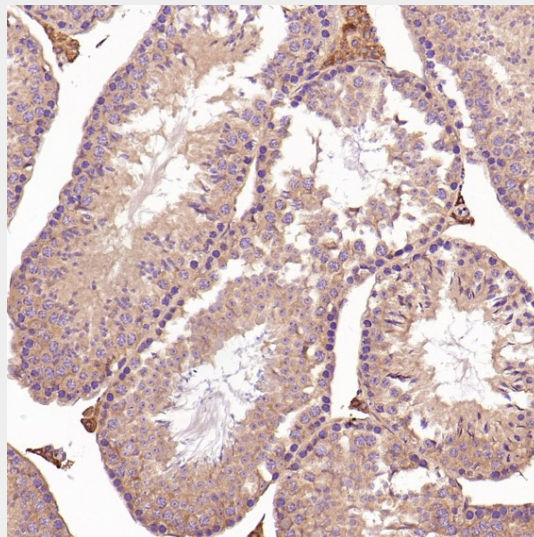
Immunohistochemical analysis of paraffin-embedded Human testis cancer, using the Antibody at 1:300 dilution.



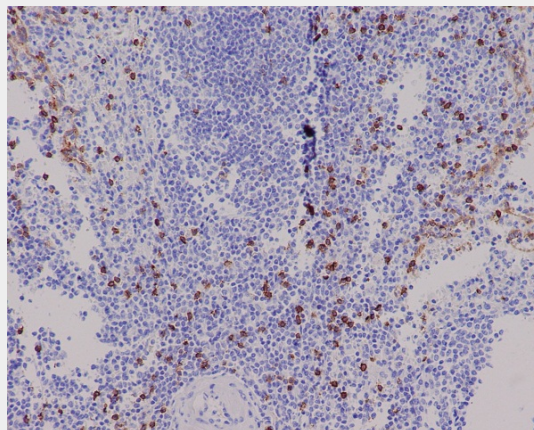
Immunohistochemical analysis of paraffin-embedded Human melanoma, using the Antibody at 1:300 dilution.



Immunohistochemical analysis of paraffin-embedded Human astrocytoma, using the Antibody at 1:300 dilution.



Immunohistochemical analysis of paraffin-embedded Mouse testis, using the Antibody at 1:100 dilution.



Immunohistochemical analysis of paraffin-embedded human spleen, using CD8 alpha Antibody.