



Mouse anti CD8 Monoclonal Antibody

Alternative Name(s): Cluster of Differentiation 8

Order Information

- **Description:** CD8
- **Catalogue:** 603-061
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** SK1
- **Application:** IHC(P), FC
- **Reactivity:** Hu

ANTIGEN PREPARATION

A recombinant protein derived from extracellular domain (22-182aa) was used as an immunogen.

BACKGROUND

The CD8 antigen is a cell surface glycoprotein found on majority of cytotoxic T lymphocytes, thymocytes and some peripheral blood T cells. It mediates efficient cell-cell interactions within the immune system. CD8 antigen acts as a coreceptor with the T-cell receptor on the T lymphocyte to recognize antigens displayed by an antigen presenting cell in the context of class I MHC molecules. Studies show that different antibodies against human CD8 exert opposite effects on MHC-peptide tetramer binding to the TCR: tetramer staining was enhanced by OKT8 antibody, while it was blocked with SK1 antibody. CD8a is a critical coreceptor of cytotoxic T cells.

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human CD8 protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: 0.5-5 µg/10⁶ cells
- Molecular Weight: 33.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

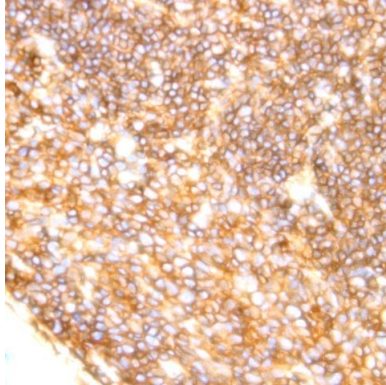
*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

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DATA ATTACHMENTS



Immunohistochemistry: Human Tonsil (FFPE) stained with Mouse anti CD8 (Clone SK1) (Cat# 603-061) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

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