



Mouse anti CD3 Monoclonal Antibody

Alternative Name(s): cluster differentiation 3

Order Information

- **Description:** CD3
- **Catalogue:** 604-551
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** S4.1
- **Application:** IHC(P), FC
- **Reactivity:** Hu

ANTIGEN PREPARATION

A recombinant protein of human CD3

BACKGROUND

CD3 is a cluster of differentiation glycoprotein consisting of up to five polypeptide chains (gp20, gp26, p16, p20, p28). CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. This protein is present on virtually all peripheral blood T cells. CD3 antibody is commonly used as a phenotypic marker for human T cells. CD3 is a part of TCR complex, and is required for proper assembly, trafficking and surface expression of TCR complex. It is involved in T cell activation, proliferation and apoptosis pathway. CD3 is engaged in activating both the cytotoxic T cells (CD8+ naive T cells) and T helper cells (CD4+ naive T cells). CD3 complex mediates signal transduction.

PURIFICATION

The Mouse IgG is purified by Affinity Purification

FORMULATION

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

SPECIFICITY

This antibody recognizes human CD3 protein. The other species are not tested.

STORAGE

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

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 $\mu\text{g/ml}$
- ELISA: 0.01-0.1 $\mu\text{g/ml}$
- Immunoprecipitation: 2-5 $\mu\text{g/ml}$
- IHC: 2-10 $\mu\text{g/ml}$
- Flow cytometry: 0.5-5 $\mu\text{g}/10^6$ cells
- Molecular Weight: 20.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

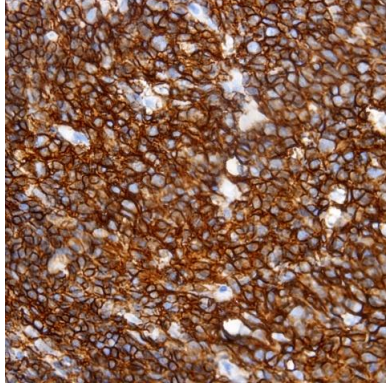
*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

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DATA ATTACHMENTS



Immunohistochemistry: Human Tonsil (FFPE) stained with Mouse anti-CD3 (Cat# 604-551) 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

Li B, et al. 2005. Immunology 116:487

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