



Hamster anti mCD3e Monoclonal Antibody

Alternative Name(s): cluster differentiation 3e

Order Information

- **Description:** CD3e (HAM)
- **Catalogue:** 604-560
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Hamster
- **Clone:** 145-2C11
- **Application:** IHC(P), FC
- **Reactivity:** Hu

ANTIGEN PREPARATION

Cell membrane fraction of mouse PBMC

BACKGROUND

CD3e protein together with CD3 -gamma, -delta, and -zeta and T-cell receptor alpha/beta forms a T-cell receptor-CD3 complex and plays an essential role in signal transduction. CD3-ε chain is central to CD3 core assembly and full complex formation. This transmembrane protein is expressed on T-cells, NK-T cells and thymocytes. The CD3-ε polypeptide plays a critical role in T-cell development. Studies show that independent mutations of the human CD3-ε gene result in a T cell receptor/CD3 complex immunodeficiency. Research demonstrates that susceptibility to type I diabetes in women is associated with the CD3 epsilon locus on chromosome 11. Studies by several groups confirm that the cytoplasmic domains of the CD3ε and ζ chains are not suspended in the cytosol, but bound to the inner leaflet of the plasma membrane.

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 mouse CD3e (HAM) 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 months 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: 20.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

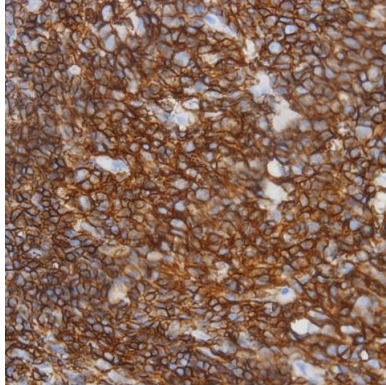
*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

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DATA ATTACHMENTS



Immunohistochemistry: Human Tonsil (FFPE) stained with Mouse anti- CD3 (Cat# 604-560) 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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