



Mouse anti CD9 Monoclonal Antibody

Alternative Name(s): nan

Order Information

- **Description:** CD9
- **Catalogue:** 605-470
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** HI9a
- **Application:** IHC(P), FC
- **Reactivity:** Hu

ANTIGEN PREPARATION

A recombinant protein of human CD9

BACKGROUND

CD9 is a glycoprotein, member of the transmembrane 4 superfamily, also known as the tetraspanin family. Tetraspanins are cell surface glycoproteins with four transmembrane domains that form multimeric complexes with other cell surface proteins. Depending on the cell type and associated molecules, CD9 has a wide variety of biological activities such as cell adhesion, motility, metastasis, growth, signal transduction, differentiation, and sperm-egg fusion. CD9 is expressed on a large variety of hematopoietic and non-hematopoietic cells, such as stromal cells, megakaryocytes, platelets, B and T lymphocytes, dendritic cells, endothelial cells, mast cells, eosinophils, and basophils. Tetraspanins CD9 and CD81 and also CD63 (subgroup 2b), are co-regulators of HIV-1-induced virus-cell or cell-cell fusion. Some studies highlighted CD9 interactions with other membrane proteins necessary for fertilization such as pregnancy specific glycoprotein 17 (PSG17) or beta1 integrins.

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 CD9 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 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: 24.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

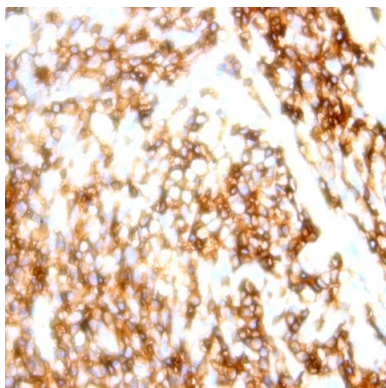
*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

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DATA ATTACHMENTS



Immunohistochemistry: Human lymph node (FFPE) stained with Mouse anti-CD9 (Cat# 605-470) 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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