



CD9 (Motility-Related Protein-1, MRP-1) (FITC)

Catalog number

C2260-05D

Supplier

United States Biological

CD9 is also known as Motility-related protein-1 (MRP-1). CD9 is a 24-27kD transmembrane protein which is a member of the tetraspanin family. It is thought that the main role of tetraspanins is to form signal transducing complexes with integrins at the cell surface, and for this reason CD9 has multiple functions in cell adhesion and motility, platelet activation, gamete fusion and cell proliferation.

CD9 has a functional role as a tumor metastatic suppressor and is expressed in melanomas, and colon, lung and breast carcinomas

Applications

Suitable for use in Flow Cytometry. Other applications not tested.

Recommended Dilution

Flow Cytometry: Neat-1:10, 10ul labels 1x10e6 cells in 100ul.
Optimal dilutions to be determined by the researcher.

Storage and Stability

Store product at 4°C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20°C. Aliquots are stable at -20°C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer.

Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

Formulation

Supplied as a liquid in PBS, pH 7.4, 1% BSA, 0.09% sodium azide. Labeled with Fluorescein isothiocyanate (FITC).

Purity

Purified by Protein G affinity chromatography from tissue culture supernatant.

Specificity

Recognizes human CD9.

Product Type

Mab

Source

human

Isotype



IgG2a

Grade

Affinity Purified

Applications

FC

Crossreactivity

Hu

Storage

-20°C

Detection Method

FITC

Reference

1. Huang, C.L. et al. (2004) MRP-1/CD9 gene transduction downregulates Wnt signal pathways. *Oncogene*. 23: 7475-7483. 2. Huang, C.L. et al. (2006) MRP-1/CD9 gene transduction regulates the actin cytoskeleton through the downregulation of WAVE2. *Oncogene*. 25: 6480-6488. 3. Berditchevski, F. and Odintsova, E. (1999) Characterization of Integrin-Tetraspanin Adhesion Complexes: Role of Tetraspanins in Integrin Signaling. *J. Cell. Biol.* 146: 477-493. 4. Oxford University Press. (1989) *Leucocyte Typing IV*. 989-990.