CD49f monoclonal antibody

Catalog: MB66935 Host: Mouse Reactivity: Human

BackGround:

Integrins are α/β heterodimeric cell surface receptors that play a pivotal role in cell adhesion and migration, as well as in growth and survival. The integrin family contains at least 18 α and 8 β subunits that form 24 known integrins with distinct tissue distribution and overlapping ligand specificities . Integrins not only transmit signals to cells in response to the extracellular environment , but also sense intracellular cues to alter their interaction with the extracellular environment .

Integrin α6 is a 120 kDa protein with two splice variants, integrin α6, 6A and 6B , which function as receptors for laminins on the basal membrane to mediate cellular adhesion events . α6 integrins have been shown to play an important role in hematopoietic stem and progenitor cell homing to the bone marrow.

Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 130 kDa

Swiss-Prot:

P23229

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/1000 - 1/5000), IHC (1/50 - 1/200), IF/ICC (1/10 - 1/50), FC (1/10 - 1/50)

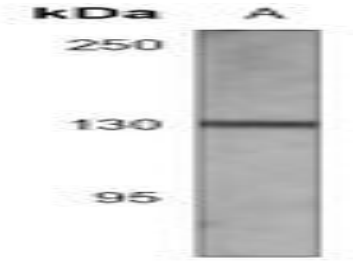
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

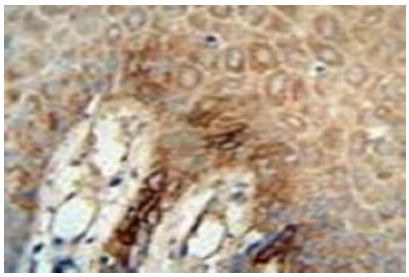
Specificity:

Recognizes endogenous levels of CD49f protein.

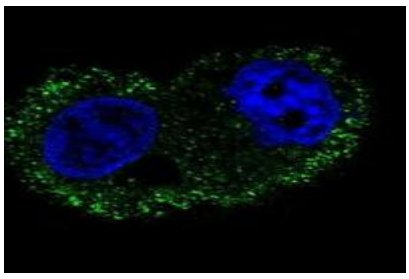
DATA:



Western blot analysis of CD49f expression in HepG2 (A) whole cell lysates.



Immunohistochemical analysis of CD49f staining in human skin carcinoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of CD49f staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 ℃ in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated

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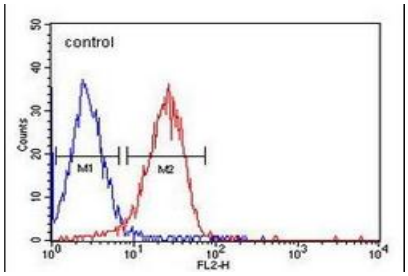
secondary antibody (green) in PBS at room temperature in the dark.

DAPI was used to stain the cell nuclei (blue).



Note:

For research use only, not for use in diagnostic procedure.

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