

CD49d polyclonal antibody

Catalog: BS67449

Host: Rabbit

Reactivity: Human, Mouse, Rat

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 (outside-in signaling), but also sense intracellular cues to alter their interaction with the extracellular environment (inside-out signaling). A pair of important $\alpha 4$ integrins, $\alpha 4\beta 1$ and $\alpha 4\beta 7$, interact with VCAM-1, fibronectin, and MAD-CAM-1 at cell adhesions. Gene knockout and antibody blocking research reveal that $\alpha 4$ integrins play important roles in embryonic liver and heart development and in fetal lymphocyte homing. Phosphorylation at Ser988 within the cytoplasmic tail of integrin $\alpha 4$ blocks binding to paxillin and promotes leading edge migration. On SDS-PAGE, integrin $\alpha 4$ can migrate at several different apparent molecular sizes, a 150 kDa mature protein and a 140 kDa precursor protein (a 180 kDa protein also exists under mild non-reducing conditions). Integrin $\alpha 4$ has a cleavage site at Arg558, which results in a small portion of the protein as either an 80 kDa N-terminal or 70 kDa C-terminal fragment.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 170 kDa

Swiss-Prot:

P13612

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

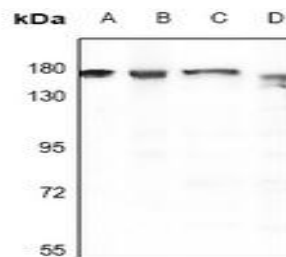
Storage&Stability:

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

Specificity:

Recognizes endogenous levels of CD49d protein.

DATA:



Western blot analysis of CD49d expression in PMVEC (A), SP20 (B), SHSY5Y (C), A549 (D) whole cell lysates.

Note:

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

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