

Integrin alpha-9 Recombinant monoclonal antibody

Catalog Number: 88081-2-RR

Basic Information

Catalog Number: 88081-2-RR	GenBank Accession Number: NM_002207.2	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 3680	CloneNo.: 260170E4
Isotype: IgG	UNIPROT ID: Q13797	Recommended Dilutions: WB: 1:2000-1:10000
Immunogen Catalog Number: EG6174	Full Name: integrin, alpha 9	
	Calculated MW: 114 kDa	
	Observed MW: 140-150 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : A-673 cells, A549 cells, HeLa cells, HepG2 cells
Species Specificity: human	

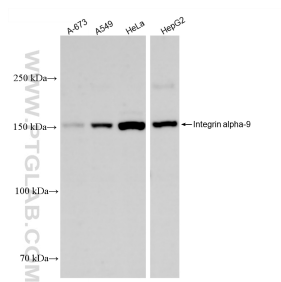
Background Information

Integrins are cell adhesion receptors that are heterodimers composed of non-covalently associated α and β subunits (PMID: 9779984). Integrin alpha 9 contains a large N-terminal extracellular domain with 7 conserved repeats of putative metal-binding domains, a transmembrane segment, and a short C-terminal cytoplasmic tail (PMID: 8245132). Integrin alpha 9 interacts with integrin beta 1, generating $\alpha 9 \beta 1$ heterodimer, which is expressed in many cell types, including epithelial cells, neutrophils, hepatocytes, muscle, and endothelial cells (PMID: 21975548). It binds to a diversity of ligands in the extracellular matrix, like the α -disintegrin and metalloprotease (ADAM) family, THBS1, EMILIN1, VEGF, tenascin-C, osteopontin, fibronectin, and VCAM1 (PMID: 21975548; 33790909). Integrin $\alpha 9 \beta 1$ has been implicated in diverse biological functions, including angiogenesis, lymphangiogenesis, lymphatic valve morphogenesis, granulopoiesis and tumorigenesis (PMID: 20179422).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88081-2-RR (Integrin alpha-9 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.