

For Research Use Only

Integrin alpha-9 Recombinant monoclonal antibody, PBS Only

Catalog Number: 88081-2-PBS



Basic Information

Catalog Number: 88081-2-PBS	GenBank Accession Number: NM_002207.2	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 3680	CloneNo.: 260170E4
Source: Rabbit	UNIPROT ID: Q13797	
Isotype: IgG	Full Name: integrin, alpha 9	
Immunogen Catalog Number: EG6174	Calculated MW: 114 kDa	
	Observed MW: 140-150 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

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

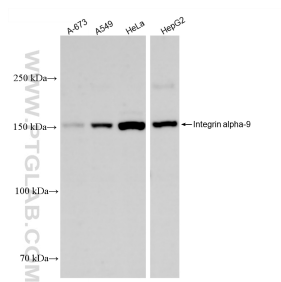
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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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. This data was developed using the same antibody clone with 88081-2-PBS in a different storage buffer formulation.