

Anti-Human Integrin alpha-9 Rabbit Recombinant Antibody

Catalog Number: 98914-1-RR

Basic Information

Catalog Number: 98914-1-RR	GenBank Accession Number: NM_002207.2	Purification Method: Protein A purification
Concentration: 100ug, 1000 µg/ml	GeneID (NCBI): 3680	CloneNo.: 260170G5
Source: Rabbit	UNIPROT ID: Q13797	Recommended Dilutions: FC: 0.25 ug per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG	Full Name: integrin, alpha 9	
Immunogen Catalog Number: EG6174	Calculated MW: 114 kDa	

Applications

Tested Applications: FC	Positive Controls: FC : human peripheral blood leukocytes,
Species Specificity: human	

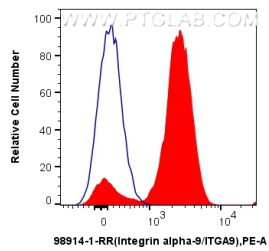
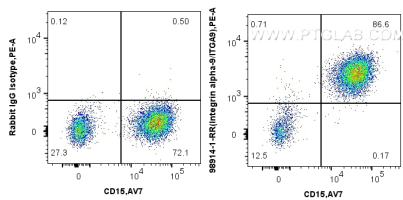
Background Information

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 2 - 8°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide, pH7.3

Selected Validation Data



1x10⁶ human peripheral blood leukocytes were surface stained with 0.25 ug Anti-Human Integrin alpha-9 Rabbit RecAb (98914-1-RR, Clone: 260170G5) or Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were then stained with FcZero-rAb® APC-Cyanine7 Anti-Human CD15 Rabbit Recombinant Antibody (AY7-FcA98616, Clone: 252342A1). Cells were incubated with

1x10⁶ human peripheral blood Leukocytes were surface stained with 0.25 ug Anti-Human Integrin alpha-9 Rabbit RecAb (98914-1-RR, Clone: 260170G5) (red) or Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.