

For Research Use Only

# Integrin alpha-9 Polyclonal antibody

Catalog Number: 28348-1-AP



## Basic Information

### Catalog Number:

28348-1-AP

### Size:

150ul, Concentration: 150 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG28815

### GenBank Accession Number:

BC030198

### GeneID (NCBI):

3680

### UNIPROT ID:

Q13797

### Full Name:

integrin, alpha 9

### Calculated MW:

114 kDa

### Observed MW:

135 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

## Applications

### Tested Applications:

WB, ELISA

### Species Specificity:

Human, Mouse

### Positive Controls:

WB : HEK-293 cells, HeLa cells, NIH/3T3 cells

## Background Information

Integrins are cell adhesion receptors that are heterodimers composed of non-covalently associated  $\alpha$  and  $\beta$  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  $\alpha$ -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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

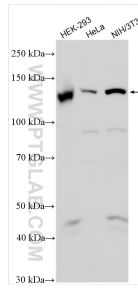
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28348-1-AP (Integrin alpha 9 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.