

For Research Use Only

# Integrin alpha-5/CD49e Monoclonal antibody

Catalog Number: 68561-1-Ig

Featured Product



## Basic Information

Catalog Number:

68561-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG33642

GenBank Accession Number:

BC008786

GeneID (NCBI):

3678

UNIPROT ID:

P08648

Full Name:

integrin, alpha 5 (fibronectin receptor, alpha polypeptide)

Calculated MW:

115 kDa

Observed MW:

140 kDa

Purification Method:

Protein A purification

CloneNo.:

3B9E5

Recommended Dilutions:

WB: 1:5000-1:50000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat, pig, rabbit

Positive Controls:

WB: A549 cells, HAP1 cells, Jurkat cells, rat colon tissue, HeLa cells, K-562 cells, pig colon tissue, rabbit colon tissue, mouse colon tissue, mouse small intestine tissue

## Background Information

Integrins are cell adhesion receptors that are heterodimers composed of non-covalently associated alpha and beta subunits. Integrin alpha 5 (ITGA5), belongs to the integrin alpha chain family, primarily binds to Integrin beta 1 (ITGB1) to form an  $\alpha 5 \beta 1$  heterodimer (PMID: 33711961). Integrin  $\alpha 5 \beta 1$  is a specific receptor of fibronectin through its arginine-glycine-aspartic acid (RGD) binding site (PMID: 19608542). Integrin  $\alpha 5 \beta 1$  plays roles in cell adhesion, migration and matrix formation, and has emerged as an essential mediator in many human carcinomas (PMID: 33408483).

## Storage

Storage:

Store at  $-20^{\circ}\text{C}$ . Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for  $-20^{\circ}\text{C}$  storage

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

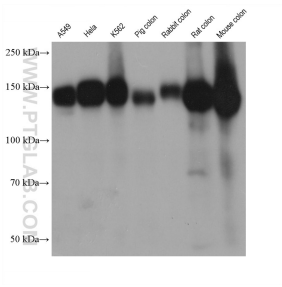
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

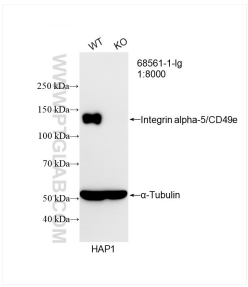
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# Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68561-1-Ig (Integrin alpha-5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of Integrin alpha-5/CD49e antibody (68561-1-Ig; 1:8000; room temperature for 1.5 hours) with wild-type and Integrin alpha-5/CD49e knockout HAP1 cells.