

For Research Use Only

# Integrin alpha-5 Recombinant antibody

Catalog Number: 84468-4-RR



## Basic Information

<b>Catalog Number:</b> 84468-4-RR	<b>GenBank Accession Number:</b> BC008786	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3678	<b>CloneNo.:</b> 241685A3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P08648	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> integrin, alpha 5 (fibronectin receptor, alpha polypeptide)	
	<b>Calculated MW:</b> 115 kDa	
	<b>Observed MW:</b> 140 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>WB :</b> A549 cells, HeLa cells, NIH/3T3 cells, human placenta tissue
	<b>IF/ICC :</b> HeLa cells,

## 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

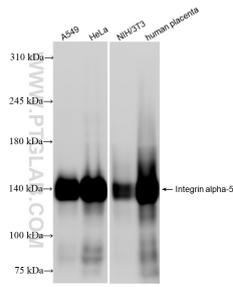
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

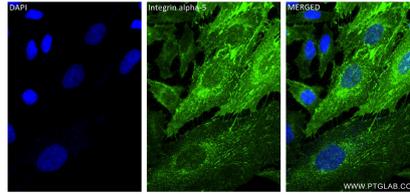
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

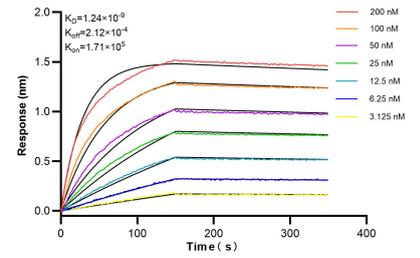
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84468-4-RR (Integrin alpha-5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Integrin alpha-5 antibody (84468-4-RR, Clone: 241685A3) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Bi-layer interferometry (BLI) kinetic assays of 84468-4-RR against Human Integrin alpha-5 were performed. The affinity constant is 1.24 nM.