

# Integrin beta-5 Recombinant antibody

Catalog Number: 83514-3-RR

## Basic Information

<b>Catalog Number:</b> 83514-3-RR	<b>GenBank Accession Number:</b> BC006541	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3693	<b>CloneNo.:</b> 240401G11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P18084	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> integrin, beta 5	
<b>Immunogen Catalog Number:</b> AG29783	<b>Calculated MW:</b> 88 kDa	
	<b>Observed MW:</b> 88-100 kDa	

## Applications

**Tested Applications:**  
WB, IHC, FC (Intra), ELISA

**Species Specificity:**  
human

**Note-IHC:** suggested antigen retrieval with **TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** A549 cells, HT-29 cells, NIH-H1299 cells

**IHC :** human ovary cancer tissue,

## Background Information

ITGB5, also known as Integrin beta-5. It is expected to be located in the plasma membrane and mitochondria, which is ubiquitinated in placenta and gall bladder. ITGB5 is a member of integrins and was proved to be associated with pathological processes in several tumors (PMID: 34966851). It is reported that TGB5 is highly expressed in hepatocellular carcinoma (HCC), and miR-185 regulates the expression of  $\beta$ -catenin through the ITGB5-dependent manner and affects the proliferation and migration of HCC cells (PMID: 35223869). The molecular weight of ITGB5 is 88 kDa, and the glycosylation modification also exists.

## Storage

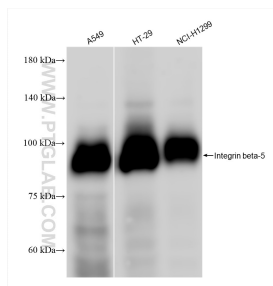
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

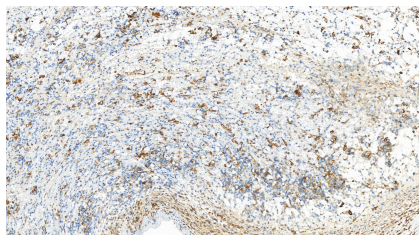
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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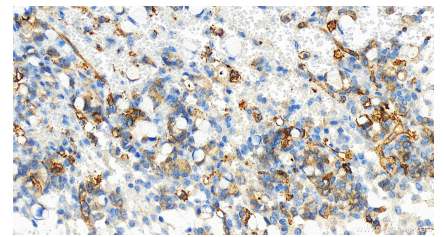
## Selected Validation Data



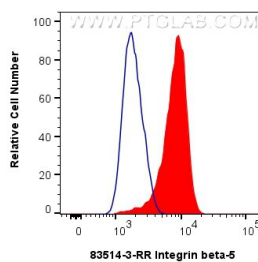
Various lysates were subjected to SDS PAGE followed by western blot with 83514-3-RR (Integrin beta-5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



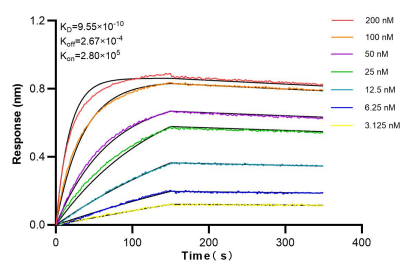
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 83514-3-RR (Integrin beta-5 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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$1 \times 10^6$  HeLa cells were intracellularly stained with 0.25  $\mu$ g Integrin beta-5 Recombinant antibody (83514-3-RR, Clone:240401G11) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25  $\mu$ g Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83514-3-RR against Human Integrin beta-5 were performed. The affinity constant is 0.955 nM.