For Research Use Only

Integrin beta-5 Recombinant antibody, PBS Only (Capture/Detector)

Catalog Number:83514-3-PBS

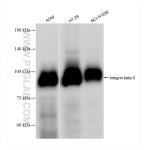


Basic Information	Catalog Number: 83514-3-PBS	GenBank Accession Number: BC006541	Purification Method: Protein A purification
	Size:	GenelD (NCBI):	CloneNo.:
	100ug , Concentration: 1 mg/ml by	3693	240401G11
	Nanodrop;	UNIPROT ID:	
	Source:	P18084	
	Rabbit	Full Name:	
	Isotype: IgG	integrin, beta 5	
	Immunogen Catalog Number:	Calculated MW: 88 kDa	
	AG29783	Observed MW:	
		88-100 kDa	
Applications	Tested Applications:		
Apprications	WB, IHC, FC (Intra), Cytometric bead ELISA, Indirect ELISA, Sample test	array, Sandwich	
	Species Specificity: human		
Product Information	83514-3-PBS targets Integrin beta-5 as part of a matched antibody pair:		
	MP00512-1: 83514-2-PBS capture and 83514-3-PBS detection (validated in Cytometric bead array)		
	MP00512-2: 83514-5-PBS capture and 83514-3-PBS detection (validated in Cytometric bead array)		
	MP00512-4: 83514-3-PBS capture and 83514-1-PBS detection (validated in Sandwich ELISA)		
	Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.		
		s cytometry, and multiplex imaging	applications including: ELISAs, multiplex g applications.Antibody use should be
Background Information	ITGB5, also known as Integrin beta-5. It is expected to be located in the plasma membrane and mitochondria, which is i 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 β - 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 -80°C. Storage Buffer: PBS Only		

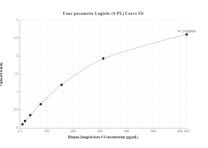
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.com

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

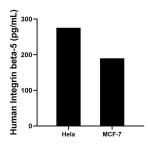
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83514-3-RR (Integrin beta-5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83514-3-PBS in a different storage buffer formulation.



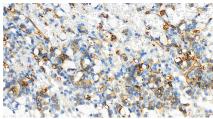
Sandwich ELISA standard curve of MP00512-4, Integrin Beta 5 Recombinant Matched Antibody Pair - PBS only. 83514-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag29783.83514-1-PBS was HRP conjugated as the detection antibody. Range: 9.766-625 pg/mL



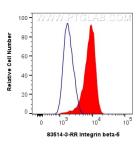
The mean Integrin Beta 5 concentration was determined to be 275.71 pg/mL in Hela cell extract based on a 2.8 mg/mL extract load and 190.06 pg/mL in MCF-7 cell extract based on a 3.1 mg/mL extract based on a 3.1 mg/mL extract based on a 4.1 mg/mL extract based on 4.1 mg/mL extract based on 4.1 mg/mL extrac



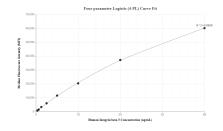
Immunohistochemical analysis of paraffinembedded human ovary cancer tissue slide using 83514-3-RR (Integrin beta-5 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83514-3-PBS in a different storage buffer formulation.

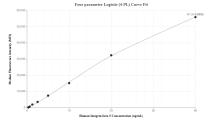


Immunohistochemical analysis of paraffinembedded human ovary cancer tissue slide using 83514-3-RR (Integrin beta-5 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83514-3-PBS in a different storage buffer formulation.

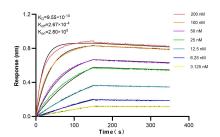


1x10^{^6} HeLa cells were intracellularly stained with 0.25 ug Integrin beta-5 Recombinant antibody (83514-3-RR, Clone:240401G11) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83514-3-





Cytometric bead array standard curve of MP00512-2, Integrin Beta 5 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83514-5-PBS. Detection antibody: 83514-3-PBS. Standard: Ag29783. Range: 0.313-40 ng/mL



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

Cytometric bead array standard curve of MP00512-1, Integrin Beta 5 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83514-2-PBS. Detection antibody: 83514-3-PBS. Standard: Ag29783. Range: 0.313-40 ng/mL