

For Research Use Only

Mouse Integrin beta 5 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 87465-1-PBS



Basic Information

Catalog Number: 87465-1-PBS	GenBank Accession Number: GeneID (NCBI): 16419	Purification Method: Protein A purification
Source: Rabbit	Full Name: integrin beta 5	CloneNo.: 252748B7
Isotype: IgG	Observed MW: 100 kDa	
Immunogen Catalog Number: EG10456		

Applications

Tested Applications:
WB, IHC, IF/ICC, Sandwich ELISA, Indirect ELISA

Species Specificity:
mouse, rat

Background Information

Integrin beta-5 (ITGB5) 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 β - catenin through the ITGB5-dependent manner and affects the proliferation and migration of HCC cells (PMID: 35223869).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

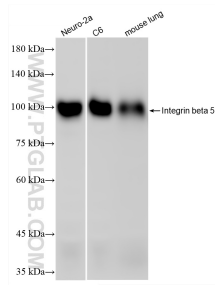
T: 4006900926

E: Proteintech-CN@ptglab.com

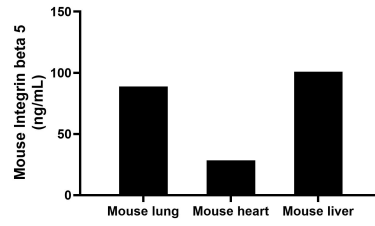
W: ptgcn.com

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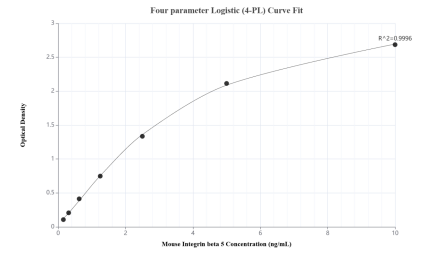
Selected Validation Data



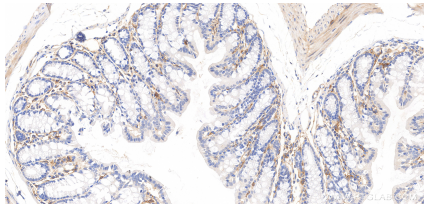
Various lysates were subjected to SDS PAGE followed by western blot with 87465-1-RR (ITB5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87465-1-PBS in a different storage buffer formulation.



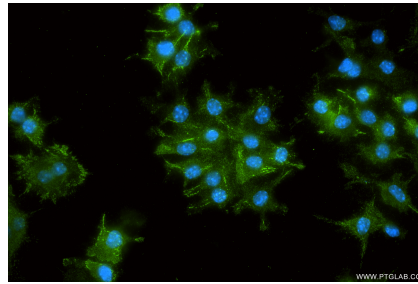
The mean Integrin beta 5 concentration was determined to be 88.87 ng/mL in mouse lung extract based on a 5.00 mg/mL extract load, 28.42 ng/mL in mouse heart extract based on a 5.40 mg/mL extract load and 100.97 ng/mL in mouse liver extract based on a 8.40 mg/mL extract load.



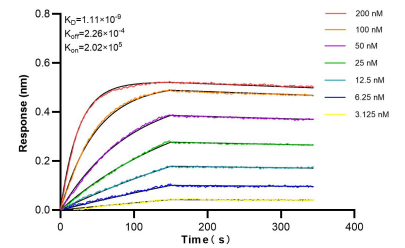
Sandwich ELISA standard curve of MP03166-1, Mouse Integrin beta 5 Recombinant Matched Antibody Pair - PBS only. 87465-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg10456. 87465-1-PBS was HRP conjugated as the detection antibody. Range: 0.156-10 ng/mL



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 87465-1-RR (Integrin beta 5 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87465-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed RAW 264.7 cells using Integrin beta 5 antibody (87465-1-RR, Clone: 252748B7) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 87465-1-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 87465-1-RR against Mouse Integrin beta 5 were performed. The affinity constant is 1.11 nM.