For Research Use Only

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

Catalog Number:83514-3-PBS



Basic Information

Catalog Number:

GenBank Accession Number: BC006541

Purification Method: Protein A purification

83514-3-PBS

GeneID (NCBI):

CloneNo.:

Size: 1 mg/ml

3693 **UNIPROT ID:** 240401G11

Source: Rabbit

P18084 Full Name:

Isotype:

integrin, beta 5

Immunogen Catalog Number:

Calculated MW: 88 kDa

AG29783

Observed MW:

88-100 kDa

Applications

Tested Applications:

WB, IHC, FC (Intra), Cytometric bead array, Sandwich

ELISA, Indirect ELISA, Sample test

Species Specificity:

human

Background Information

ITGB5, also known as Integrin beta-5. It is expected to be located in the plasma membrane and mitochondria, which is iubiquit in a ted in placenta and gall bladder. ITGB5 is a member of integrins and was proved to be associated with the property of the province of the ppathological 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:

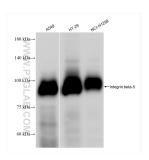
Store at -80°C.

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

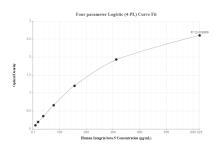
Storage Buffer:

PBS Only

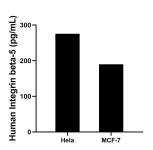
Selected Validation Data



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.



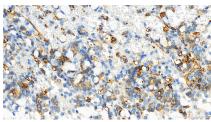
Sandwich ELISA standard curve of MP00512-4, Integrin Beta 5 Recombinant Matched Antibody Pair - PBS only. 83514-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag29783.83514-1-PBS was HRP conjugated as the detection antibody. Range: 9.766-625 pg/mL



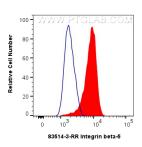
The mean Integrin Beta 5 concentration was determined to be 275.71 pg/mL in Hela cell extract based on a 2.8 mg/mL extract load and 190.06 pg/mL in MCF-7 cell extract based on a 3.1 mg/mL extract load.



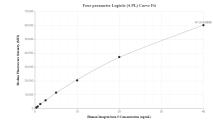
Immunohistochemical analysis of paraffinembedded human ovary cancer tissue slide using 83514-3-RR (Integrin beta-5 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83514-3-PBS in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



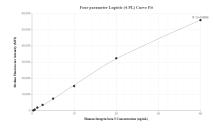
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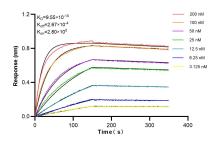
1x10^6 HeLa cells were intracellularly stained with 0.25 ug Integrin beta-5 Recombinant antibody (83514-3-RR, Clone:240401G11) and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized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



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



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