

For Research Use Only

Mouse CD315/PTGFRN Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 87433-1-PBS



Basic Information

Catalog Number: 87433-1-PBS	GenBank Accession Number: NM_011197.3	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 19221	CloneNo.: 252390C10
Source: Rabbit	UNIPROT ID: Q9WV91	
Isotype: IgG	Full Name: prostaglandin F2 receptor negative regulator	
Immunogen Catalog Number: EG6319	Calculated MW: 99 kDa	
	Observed MW: 100-130 kDa	

Applications

Tested Applications:
WB, Cytometric bead array, Indirect ELISA

Species Specificity:
mouse, rat

Product Information

87433-1-PBS targets CD315/PTGFRN as part of a matched antibody pair:

MP02983-1: 87433-2-PBS capture and 87433-1-PBS detection (validated in Cytometric bead array)

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.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

PTGFRN (Prostaglandin F2 Receptor Negative Regulator), also known as CD315, is a trans-membrane protein that modulates prostaglandin F2 α signaling and links the tetraspanin web to the cytoskeleton, it is now recognized as a driver of metastasis; high expression correlates with aggressive proliferation, migration, and spheroid growth in epidermoid carcinoma, medulloblastoma, and mesothelioma, while silencing PTGFRN impairs these traits and disrupts autophagy (PMID: 38924562). The calculated value of PTGFRN is 98 kDa. It has multiple glycosylation sites and its molecular weight after glycosylation is approximately 100 - 130 kDa.

Storage

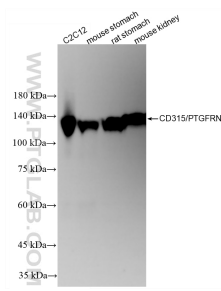
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

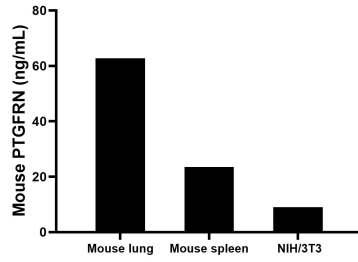
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

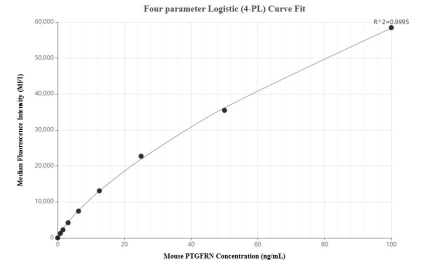
Selected Validation Data



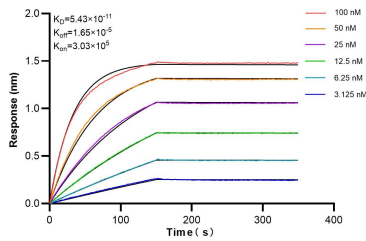
Various lysates were subjected to SDS PAGE followed by western blot with 87433-1-RR (CD315/PTGFRN antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87433-1-PBS in a different storage buffer formulation.



The mean PTGFRN concentration was determined to be 62.7 ng/mL in mouse lung tissue extract based on a 5.0 mg/mL extract load, 23.5 ng/mL in mouse spleen tissue extract based on a 6.4 mg/mL extract load, 9.0 ng/mL in NIH/3T3 cell extract based on a 1.2 mg/mL extract load.



Cytometric bead array standard curve of MP02983-1, MOUSE PTGFRN Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 87433-2-PBS. Detection antibody: 87433-1-PBS. Standard: Eg6319. Range: 0.781-100 ng/mL



Biolayer interferometry (BLI) kinetic assays of 87433-1-RR against Mouse CD315/PTGFRN were performed. The affinity constant is 54.3 pM.