For Research Use Only PTPRD Polyclonal antibody

Catalog Number:27941-1-AP

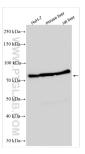


Catalog Number: 27941-1-AP	GenBank Accession Number: BC 106714	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 550 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG27689	GeneID (NCBI): 5789 UNIPROT ID: P23468 Full Name: protein tyrosine phosphatase, receptor type, D Calculated MW: 1912 aa, 215 kDa Observed MW: 75 kDa, 175 kDa	Recommended Dilutions: WB 1:1000-1:5000 IHC 1:50-1:500
TE buffer pH 9.0; (*) Alternativ	ELISA WB : HuH-7 cells, human placenta tissue, mouse liver Specificity: tissue, rat liver tissue mouse, rat IHC : human liver tissue, <i>HC</i> : suggested antigen retrieval with for pH 9.0; (*) Alternatively, antigen al may be performed with citrate IHC : human liver tissue,	
PTPRD is a receptor-type protein tyrosine phosphatase that plays significant roles in various biological processes, including cell adhesion, synaptic function, and signal transduction. PTPRD is highly expressed in the brain, followe by the kidney, ovary, placenta, and intestine. Within the brain, it is found in specific regions, suggesting a role in neurological functions. PTPRD has emerged as a potential therapeutic target for various brain phenotypes and disorders. Its genetic variations have been associated with nervous system phenotypes, and the discovery of the first small molecule inhibitor of PTPRD phosphatase has opened new avenues for therapeutic intervention in addiction and possibly other PTPRD-associated disorders. Additionally, PTPRD is considered a tumor-suppressor gene that is down-regulated in hepatocellular carcinoma, suggesting its role in cancer progression and potential a a therapeutic target. The protein can recognize 175 kDa full length and 75 kDa mature cleavage product (PMID: 19074898, PMID: 25113440).		
	Size: 150ul, Concentration: 550 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG27689 Tested Applications: WB, IHC, ELISA Species Specificity: human, mouse, rat Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternation retrieval may be performed we buffer pH 6.0 PTPRD is a receptor-type protein tyro including cell adhesion, synaptic fund by the kidney, ovary, placenta, and in neurological functions. PTPRD has end disorders. Its genetic variations have first small molecule inhibitor of PTPI addiction and possibly other PTPRD-as gene that is down-regulated in hepata a therapeutic target. The protein can	Size: GeneID (NCBI): 150ul, Concentration: 550 ug/ml by 5789 Nanodrop; UNIPROT ID: Source: P23468 Rabbit Full Name: Isotype: protein tyrosine phosphatase, IgG receptor type, D Immunogen Catalog Number: Calculated MW: AG27689 1912 aa, 215 kDa Observed MW: 75 kDa, 175 kDa Tested Applications: Positive O WB, IHC, ELISA WB : HuH- Species Specificity: tissue, rat human, mouse, rat IHC : hum Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 PTPRD is a receptor-type protein tyrosine phosphatase that plays signifincluding cell adhesion, synaptic function, and signal transduction. PTP by the kidney, ovary, placenta, and intestine. Within the brain, it is four neurological functions. PTPRD has emerged as a potential therapeutic t disorders. Its genetic variations have been associated with nervous sysfirst small molecule inhibitor of PTPRD phosphatase has opened new a addiction and possibly other PTPRD-associated disorders. Additionally, gene that is down-regulated in hepatocellular carcinoma, suggesting it a therapeutic target. The protein can recognize 175 kDa full length and

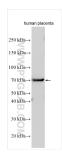
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.com

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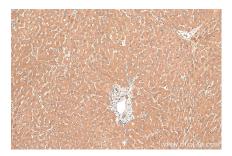
Selected Validation Data



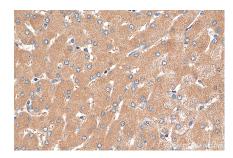
Various lysates were subjected to SDS PAGE followed by western blot with 27941-1-AP (PTPRD antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 27941-1-AP (PTPRD antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human liver tissue slide using 27941-1-AP (PTPRD antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human liver tissue slide using 27941-1-AP (PTPRD antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).