

GLEPP1 Rabbit pAb

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Catalog # AP55148

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q16827
Reactivity	Rat
Predicted	Dog, Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	138344
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GLEPP1
Epitope Specificity	351-450/1216
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane.
DISEASE	Defects in PTPRO are the cause of nephrotic syndrome type 6 (NPHS6) [MIM:614196]. NPHS6 is a renal disease characterized clinically by proteinuria, hypoalbuminemia, hyperlipidemia and edema. Kidney biopsies show non-specific histologic changes such as focal segmental glomerulosclerosis and diffuse mesangial proliferation. Some affected individuals have an inherited steroid-resistant form and progress to end-stage renal failure.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Protein phosphatases play critical roles in the regulation of signal transduction pathways. The family can be separated into three general categories, which are distinguished on the basis of substrate specificity. The first and largest category, termed protein tyrosine phosphatases or PTPs, includes transmembrane proteins, membrane associated proteins and proteins that localize to nuclei. The second category of protein phosphatases dephosphorylate proteins on phosphoserine and phosphothreonine residues, whereas the third category of protein phosphatases exhibit dual specificities and can dephosphorylate proteins on phosphotyrosine and phosphoserine/phosphothreonine residues. Glomerular epithelial protein 1 (GLEPP1), also designated protein tyrosine phosphatase U2 (PTPase U2) or receptor-type tyrosine-protein phosphatase O (PTPRO), belongs to the protein-tyrosine phosphatase family. GLEPP1 is a Type I membrane protein containing 8 fibronectin type-III domains and 1 tyrosine-protein phosphatase domain. GLEPP1 is expressed primarily in the glomeruli of the kidney, but is also detected in placenta, lung and brain.

Additional Information

Gene ID	5800
Other Names	Receptor-type tyrosine-protein phosphatase O, R-PTP-O, 3.1.3.48, Glomerular epithelial protein 1, Protein tyrosine phosphatase U2, PTP-U2, PTPase U2, PTPRO, GLEPP1, PTPU2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

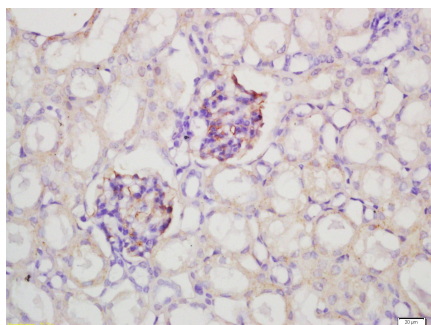
Protein Information

Name	PTPRO
Synonyms	GLEPP1, PTPU2
Function	Possesses tyrosine phosphatase activity. Plays a role in regulating the glomerular pressure/filtration rate relationship through an effect on podocyte structure and function (By similarity).
Cellular Location	Membrane; Single-pass type I membrane protein.
Tissue Location	Glomerulus of kidney. Also detected in brain, lung and placenta.

Background

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Images



Tissue/cell: rat lung carcinoma; 4%
 Paraformaldehyde-fixed and paraffin-embedded;
 Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling
 bathing for 15min; Block endogenous peroxidase by 3%
 Hydrogen peroxide for 30min; Blocking buffer (normal
 goat serum,C-0005) at 37°C for 20 min;
 Incubation: Anti-GGA2 Polyclonal Antibody,
 Unconjugated(AP55148) 1:200, overnight at 4°C, followed
 by conjugation to the secondary antibody(SP-0023) and
 DAB(C-0010) staining

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