PTPRO Polyclonal antibody

Catalog Number:12161-1-AP   **12 Publications**

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Basic Information

Catalog Number:
12161-1-AP

Size:
260 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2802

GenBank Accession Number:
BC035960

GeneID (NCBI):
5800

UNIPROT ID:
Q16827

Full Name:
protein tyrosine phosphatase, receptor type, O

Calculated MW:
138 kDa

Purification Method:
Antigen affinity purification

Applications

Tested Applications:
ELISA

Cited Applications:
WB, IHC, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Background Information

PTPRO(receptor-type tyrosine-protein phosphatase O) is also named as GLEPP1, PTPU2 and belongs to the protein-tyrosine phosphatase family. The protein is a receptor-like membrane protein tyrosine phosphatase expressed at the apical membrane of the podocyte foot processes in the kidney(PMID:21722858). The 1,159-amino acid predicted mature protein contains a large extracellular domain, a single transmembrane domain, and a single intracellular PTPase domain. Defects in PTPRO are the cause of nephrotic syndrome type 6 (NPHS6). In reducing conditions, PTPRO can form a smear from 180 to 220 kDa; In non-reducing conditions, a band appeares around 350 kDa, which likely represents the dimeric form of full-length PTPRO (PMID: 19573017).

Notable Publications

Author	Pubmed ID	Journal	Application
Zengfang Wang	30443949	J Cell Physiol	WB
Caihong Liang	28578349	Cell Physiol Biochem	WB
Weixing Dai	35904817	Cancer Commun (Lond)	WB

Storage

Storage:
Store at -20℃. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage