

# PTPRO Polyclonal antibody

Catalog Number: 12161-1-AP

12 Publications

## Basic Information

<b>Catalog Number:</b> 12161-1-AP	<b>GenBank Accession Number:</b> BC035960	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 260 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5800	
<b>Source:</b> Rabbit	<b>Full Name:</b> protein tyrosine phosphatase, receptor type, O	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 138 kDa	
<b>Immunogen Catalog Number:</b> AG2802		

## Applications

**Tested Applications:**  
ELISA

**Cited Applications:**  
CoIP, IHC, WB

**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 appears 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°C. 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

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
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