

# CoraLite® Plus 488-conjugated PTPRO Monoclonal antibody

Catalog Number: **CL488-67000**

## Basic Information

<b>Catalog Number:</b> CL488-67000	<b>GenBank Accession Number:</b> BC035960	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5800	<b>CloneNo.:</b> 2F2B4
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q16827	<b>Recommended Dilutions:</b> IF-P 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Full Name:</b> protein tyrosine phosphatase, receptor type, O	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG8284	<b>Calculated MW:</b> 138 kDa	
	<b>Observed MW:</b> 160 kDa, 180-220 kDa	

## Applications

<b>Tested Applications:</b> IF	<b>Positive Controls:</b> IF-P : human kidney tissue,
<b>Species Specificity:</b> Human, Pig	

## 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).

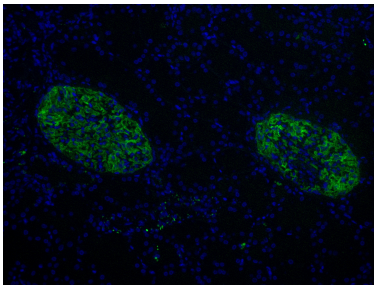
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using CoraLite® Plus 488 PTPRO antibody (CL488-67000, Clone: 2F2B4 ) at dilution of 1:200.