

For Research Use Only

# CoraLite® Plus 488-conjugated PTPN1/PTP1B Recombinant monoclonal antibody

Catalog Number:**CL488-85905-4**

Featured Product



## Basic Information

|  |   |                            |
|--|---|----------------------------|
| Catalog Number:                                | GenBank Accession Number:                         | Purification Method:       |
| CL488-85905-4                                  | BC015660  | Protein A purification     |
| Size:  | GenID (NCBI):                                     | CloneNo.:                  |
| 100ul , Concentration: 1000 ug/ml by Nanodrop; | 5770  | 250215G6                   |
| Source:  | UNIPROT ID:                                       | Recommended Dilutions:     |
| Rabbit   | P18031  | IF/ICC: 1:50-1:500         |
| Isotype:                                       | Full Name:  | Excitation/Emission maxima |
| IgG  | protein tyrosine phosphatase, non-receptor type 1 | wavelengths:               |
| Immunogen Catalog Number:                      | Calculated MW:                                    | 493 nm / 522 nm            |
| AG1878   | 435 aa, 50 kDa                                    |                            |
|  | Observed MW:                                      |                            |
|  | 50 kDa  |                            |

## Applications

|                      |                        |
|----------------------|------------------------|
| Tested Applications: | Positive Controls:     |
| IF/ICC               | IF/ICC : BxPC-3 cells, |
| Species Specificity: |                        |
| human                |                        |

## Background Information

PTPN1 (protein tyrosine phosphatase, non-receptor type 1) is also named as PTP1B or PTP-1B, and belongs to the protein-tyrosine phosphatase family and non-receptor class 1 subfamily. PTPN1 is involved in the regulation of several important physiological pathways, which regulates both INS and Leptin signaling, and interacts with the epidermal-and platelet-derived growth factor receptors (PMID: 20101100). The gene might harbor variants influencing susceptibility to INS resistance and type 2 diabetes (PMID:15919813). The molecular mass of PTPN1 is 50 kDa, but sometimes some truncated forms can be detected as 48, 46, 39, 37 kDa due to non-specific proteolytic cleavage of PTP1B in different cells (PMID: 18253097).

## Storage

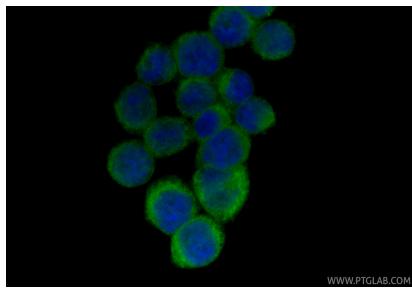
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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  
W: 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 (-20°C Ethanol)  
fixed BxPC-3 cells using Coralite® Plus 488  
PTPN1/PTP1B antibody (CL488-85905-4, Clone:  
250215G6 ) at dilution of 1:200.