

# CoraLite® Plus 488-conjugated IA-2/PTPRN Monoclonal antibody

Catalog Number: **CL488-66045**

## Basic Information

**Catalog Number:**

CL488-66045

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG3

**Immunogen Catalog Number:**

AG17909

**GenBank Accession Number:**

BC007713

**GeneID (NCBI):**

5798

**UNIPROT ID:**

Q16849

**Full Name:**

protein tyrosine phosphatase, receptor type, N

**Calculated MW:**

105 kDa

**Observed MW:**

60 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

1D3F5

**Recommended Dilutions:**

IF/ICC 1:50-1:500

**Excitation/Emission maxima wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

IF/ICC, FC (Intra)

**Species Specificity:**

human

**Positive Controls:**

IF/ICC : HepG2 cells,

## Background Information

IA-2/PTPRN is a member of the protein tyrosine phosphatase (PTP) family, which contains a transmembrane region, an intracellular PTP-like domain and an extracellular N-terminus. Experiments found that IA-2/PTPRN localizes to secretory granules and is exclusively expressed in neuroendocrine cells (including pancreatic islets cell). IA-2/PTPRN was found to be a major autoantigen in insulin-dependent diabetes mellitus and the detection of autoantibodies against IA-2/PTPRN is commonly used as a diabetes diagnosis marker.

## Storage

**Storage:**

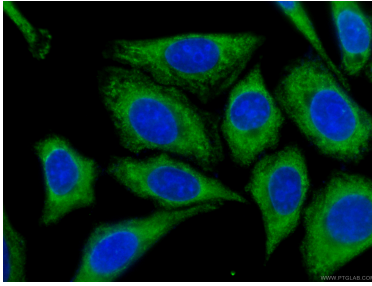
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

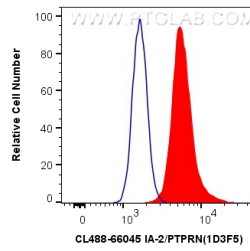
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

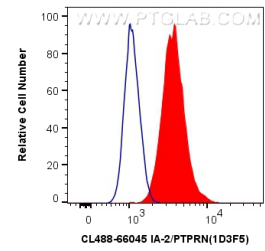
## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CL488-66045 (IA-2/PTPRN antibody) at dilution of 1:100.



1X10<sup>6</sup> HEK-293 cells were intracellularly stained with 0.4 ug Coralite® Plus 488 Anti-Human IA-2/PTPRN (CL488-66045, Clone:1D3F5) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1X10<sup>6</sup> Y79 cells were intracellularly stained with 0.4 ug Coralite® Plus 488 Anti-Human IA-2/PTPRN (CL488-66045, Clone:1D3F5) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).