

CoraLite®594-conjugated IA-2/PTPRN Monoclonal antibody

Catalog Number: **CL594-66045**

Basic Information

Catalog Number:

CL594-66045

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:**

588 nm / 604 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:

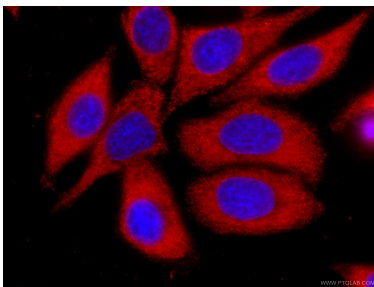
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

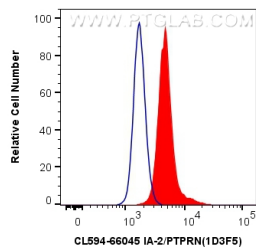
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

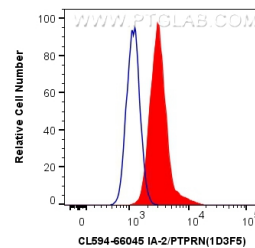
Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CL594-66045 (IA-2/PTPRN antibody) at dilution of 1:100.



1X10⁶ HEK-293 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human IA-2/PTPRN (CL594-66045, Clone:1D3F5) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1X10⁶ Y79 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human IA-2/PTPRN (CL594-66045, Clone:1D3F5) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).