

For Research Use Only

CoraLite® Plus 488-conjugated IDH2 Monoclonal antibody



Catalog Number: **CL488-66918**

Featured Product

Basic Information

Catalog Number:

CL488-66918

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG8950

GenBank Accession Number:

BC009244

GeneID (NCBI):

3418

UNIPROT ID:

P48735

Full Name:

isocitrate dehydrogenase 2 (NADP+),
mitochondrial

Calculated MW:

452 aa, 51 kDa

Observed MW:

41-47 kDa

Purification Method:

Protein G purification

CloneNo.:

1F10A10

Recommended Dilutions:

WB 1:500-1:1000

Excitation/Emission maxima
wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

WB, FC (Intra)

Species Specificity:

human

Positive Controls:

WB : HEK-293 cells,

Background Information

IDH2, also named as IDP and ICD-M, belongs to the isocitrate and isopropylmalate dehydrogenases family. It plays a role in intermediary metabolism and energy production. IDH2 is a mitochondrial NADP-dependent isocitrate dehydrogenase that catalyzes oxidative decarboxylation of isocitrate to alpha-ketoglutarate, producing NADPH. It may tightly associate or interact with the pyruvate dehydrogenase complex. IDH1 and IDH2 mutations could also contribute to tumorigenesis and cancer progression through increased mutagenesis. IDH2 has 2 isoforms with the MW of 51 kDa and 45 kDa, and the mature form is about 47 kDa and 41 kDa with the N-terminal transit peptide cleaved.

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

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

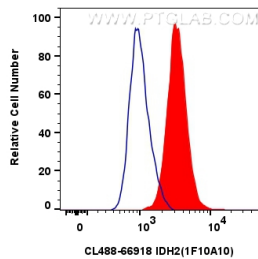
T: 4006900926

E: Proteintech-CN@ptglab.com

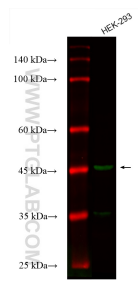
W: ptgcn.com

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Selected Validation Data



1x10⁶ HepG2 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488-conjugated IDH2 Monoclonal antibody (CL488-66918, Clone:1F10A10)(red), or 0.4 ug CoraLite® Plus 488 Mouse IgG1 Isotype Control (MOPC-21) (CL488-65124, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Various lysates were subjected to SDS PAGE followed by western blot with CL488-66918 (IDH2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.