

For Research Use Only

# CoraLite® Plus 488-conjugated PHGDH Monoclonal antibody

Catalog Number: CL488-67591



## Basic Information

Catalog Number:

CL488-67591

Concentration:

935 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG6877

GenBank Accession Number:

BC000303

GeneID (NCBI):

26227

UNIPROT ID:

O43175

Full Name:

phosphoglycerate dehydrogenase

Calculated MW:

57 kDa

Observed MW:

57 kDa

Purification Method:

Protein G purification

CloneNo.:

1E8B8

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

IF/ICC

Species Specificity:

human, mouse, rat

Positive Controls:

IF/ICC : HeLa cells,

## Background Information

PHGDH(D-3-phosphoglycerate dehydrogenase) is also named as 3-PGDH, PGDH3 and belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family. It catalyzes the transition of 3-phosphoglycerate into 3-phosphohydroxypyruvate, which is the first and rate-limiting step in the phosphorylated pathway of serine biosynthesis, using NAD<sup>+</sup>/NADH as a cofactor. 3-PGDH deficiency is a rare recessive inborn error in the biosynthesis of the amino acid L-serine characterized clinically by congenital microcephaly, psychomotor retardation, and intractable seizures(PMID:19235232 ).

## 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

Aliquoting is unnecessary for -20°C storage

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

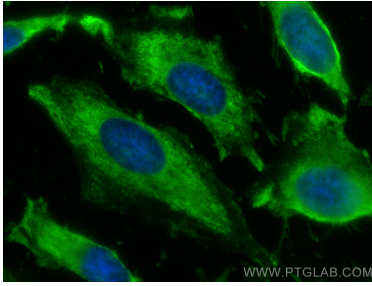
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CoraLite® Plus 488 PHGDH antibody (CL488-67591, Clone: 1E888 ) at dilution of 1:200.