

For Research Use Only

PHGDH Recombinant antibody

Catalog Number: 81986-1-RR



Basic Information

Catalog Number: 81986-1-RR	GenBank Accession Number: BC000303	Purification Method: Protein A purification
Size: 100ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 26227	CloneNo.: 5L16
Source: Rabbit	Full Name: phosphoglycerate dehydrogenase	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG	Calculated MW: 57 kDa	IP 0.5-4.0 ug for IP and 1:5000-1:50000 for WB
Immunogen Catalog Number: AG6445	Observed MW: 57 kDa	IHC 1:50-1:500

Applications

Tested Applications:

IHC, IP, WB, ELISA

Species Specificity:

Human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HEK-293 cells, Jurkat cells, mouse pancreas tissue, rat pancreas tissue

IP : HeLa cells,

IHC : human colon cancer tissue,

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⁺/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. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

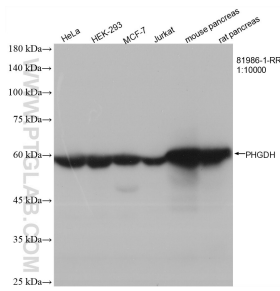
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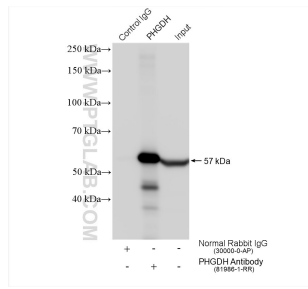
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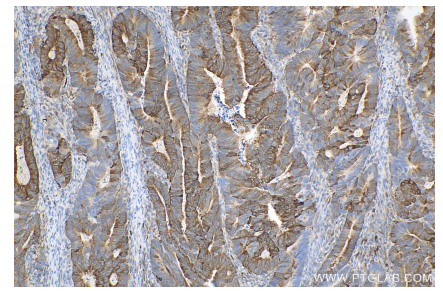
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 81986-1-RR (PHGDH antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-PHGDH(IP:81986-1-RR, 4ug; Detection:81986-1-RR 1:10000) with HeLa cells lysate 1760 ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 81986-1-RR (PHGDH antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).