For Research Use Only

PHGDH Recombinant antibody

Catalog Number:81986-1-RR Featured Product



Basic Information

Catalog Number: GenBank Accession Number: BC000303

81986-1-RR Protein A purification GeneID (NCBI): CloneNo.:

100ul , Concentration: 500 ug/ml by 26227 5L16 Nanodrop:

UNIPROT ID: Recommended Dilutions: 043175 WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total Rabbit Full Name: protein lysate

Isotype: phosphoglycerate dehydrogenase

IgG Calculated MW:

Immunogen Catalog Number: 57 kDa AG6445

Observed MW:

57 kDa

Applications

Tested Applications: WB, IP, IHC, 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

WB: HeLa cells, HEK-293 cells, Jurkat cells, mouse

IHC 1:50-1:500

Purification Method:

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 3phosphohydroxypyruvate, 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

Store at -20°C. Stable for one year after shipment.

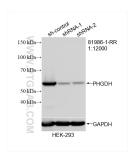
Storage Buffer:

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

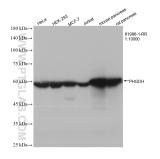
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

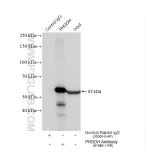
Selected Validation Data



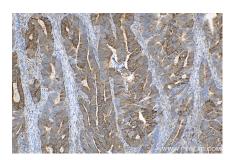
WB result of PHGDH antibody (81986-1-RR; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PHGDH transfected HEK-293



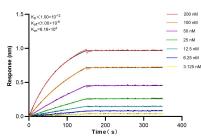
Various lysates were subjected to SDS PAGE followed by western blot with 81986-1-RR (PHGDH antibody) at dilution of 1:10000 incubated at room temporarium for 1.5 bours



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 paraffinembedded 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).



Biolayer interferometry (BLI) kinetic assays of 81986-1-RR against Human PHGDH were performed. The affinity constant is below 1 pM.