

For Research Use Only

# PHGDH Recombinant antibody, PBS Only

Catalog Number: 81986-1-PBS

Featured Product



## Basic Information

<b>Catalog Number:</b> 81986-1-PBS	<b>GenBank Accession Number:</b> BC000303	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 26227	<b>CloneNo.:</b> 5L16
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O43175	
<b>Isotype:</b> IgG	<b>Full Name:</b> phosphoglycerate dehydrogenase	
<b>Immunogen Catalog Number:</b> AG6445	<b>Calculated MW:</b> 57 kDa	
	<b>Observed MW:</b> 57 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IP, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## 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 -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

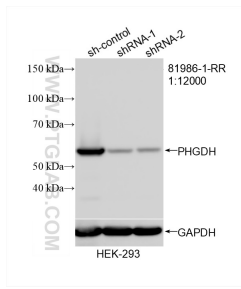
T: 4006900926

E: Proteintech-CN@ptglab.com

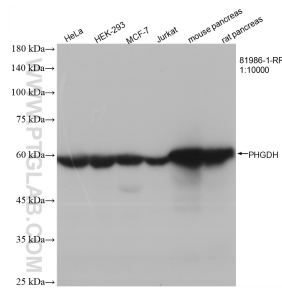
W: ptgcn.com

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

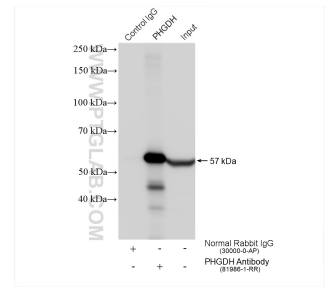
## Selected Validation Data



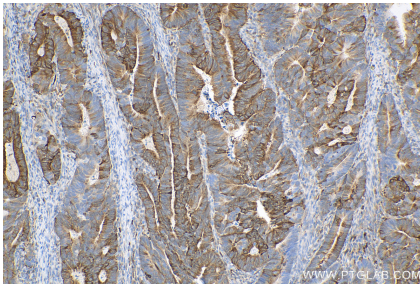
WB result of PHGDH antibody (81986-1-RR; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PHGDH transfected HEK-293 cells. This data was developed using the same antibody clone with 81986-1-PBS in a different storage buffer formulation.



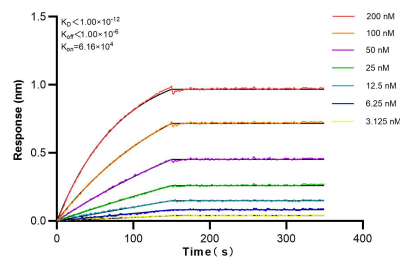
Various lysates were subjected to SDS PAGE followed by western blot with 81986-1-RR (PHGDH antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 81986-1-PBS in a different storage buffer formulation.



IP result of anti-PHGDH (IP:81986-1-RR, 4ug; Detection:81986-1-RR 1:10000) with HeLa cells lysate 1760 ug. This data was developed using the same antibody clone with 81986-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 81986-1-PBS in a different storage buffer formulation.



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