

For Research Use Only

# PHGDH Monoclonal antibody, PBS Only

Catalog Number: 67591-1-PBS



## Basic Information

Catalog Number: 67591-1-PBS	GenBank Accession Number: BC000303	Purification Method: Protein G purification
Concentration: 1mg/ml	GeneID (NCBI): 26227	CloneNo.: 1E8B8
Source: Mouse	UNIPROT ID: O43175	
Isotype: IgG1	Full Name: phosphoglycerate dehydrogenase	
Immunogen Catalog Number: AG6877	Calculated MW: 57 kDa	
	Observed MW: 57 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, 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:

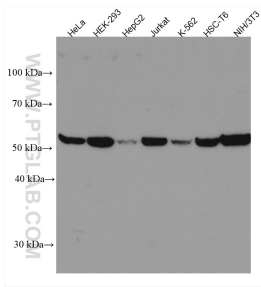
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

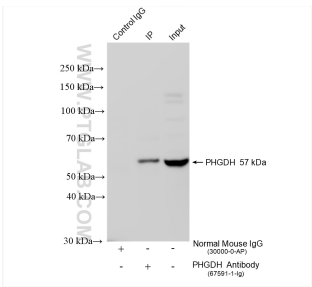
W: [ptgcn.com](http://ptgcn.com)

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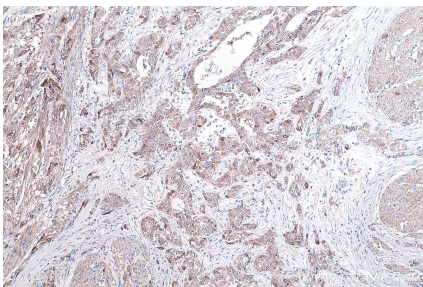
Selected Validation Data



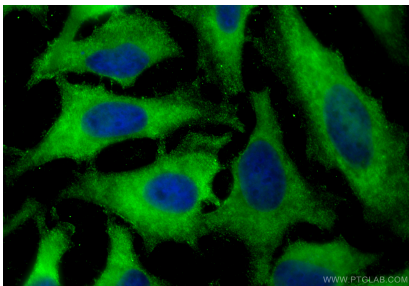
Various lysates were subjected to SDS PAGE followed by western blot with 67591-1-Ig (PHGDH antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 67591-1-PBS in a different storage buffer formulation.



IP result of anti-PHGDH (IP:67591-1-Ig, 4ug; Detection:67591-1-Ig 1:3000) with HeLa cells lysate 980 ug. This data was developed using the same antibody clone with 67591-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 67591-1-Ig (PHGDH antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67591-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PHGDH antibody (67591-1-Ig, Clone: 1E8B8 ) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 67591-1-PBS in a different storage buffer formulation.