

For Research Use Only

# PGD Monoclonal antibody, PBS Only

Catalog Number: 67916-1-PBS



## Basic Information

<b>Catalog Number:</b> 67916-1-PBS	<b>GenBank Accession Number:</b> BC000368	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 5226	<b>CloneNo.:</b> 2A10G4
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P52209	
<b>Isotype:</b> IgG1	<b>Full Name:</b> phosphogluconate dehydrogenase	
<b>Immunogen Catalog Number:</b> AG6871	<b>Calculated MW:</b> 53 kDa	
	<b>Observed MW:</b> 53 kDa, 45 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA, IF

**Species Specificity:**  
Human

## Background Information

PGD, also named as PGDH, belongs to the 6-phosphogluconate dehydrogenase family. PGD catalyses the oxidative decarboxylation of 6-phosphogluconate to ribulose 5-phosphate in the context of the oxidative part of the pentose phosphate pathway. PGD is important for the production of NADPH, which is necessary for reductive biosynthesis, such as the formation of lipids and nucleotides, and the activity of enzymes involved in maintaining cell integrity, in combatting oxidative stress and in the first line of immunological defence. (PMID: 35234135)

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

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

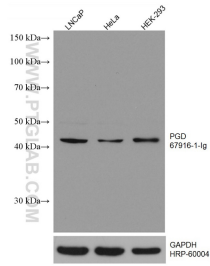
T: 4006900926

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

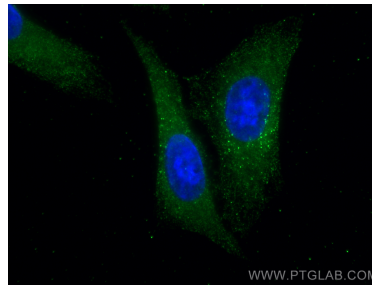
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67916-1-Ig (PGD antibody) at dilution of 1:25000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 67916-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using PGD antibody (67916-1-Ig, Clone: 2A10G4) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 67916-1-PBS in a different storage buffer formulation.