

For Research Use Only

# HPGD Monoclonal antibody, PBS Only

Catalog Number: 66798-1-PBS



## Basic Information

<b>Catalog Number:</b> 66798-1-PBS	<b>GenBank Accession Number:</b> BC018986	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3248	<b>CloneNo.:</b> 3F1F5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P15428	
<b>Isotype:</b> IgG2b	<b>Full Name:</b> hydroxyprostaglandin dehydrogenase 15-(NAD)	
<b>Immunogen Catalog Number:</b> AG1499	<b>Calculated MW:</b> 29 kDa	
	<b>Observed MW:</b> 25-28 kDa	

## Applications

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

**Species Specificity:**  
Human

## Background Information

HPGD, also named as PGDH (15-hydroxyprostaglandin dehydrogenase), a prostaglandin-degrading enzyme that physiologically antagonizes COX-2 (PMID:15574495). HPGD inhibits in vivo proliferation of colon cancer cells (PMID:24760190). HPGD has five isoforms with the molecular mass of 29, 21, 19, 16 and 15 kDa.

## Storage

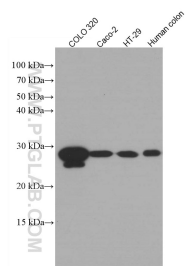
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

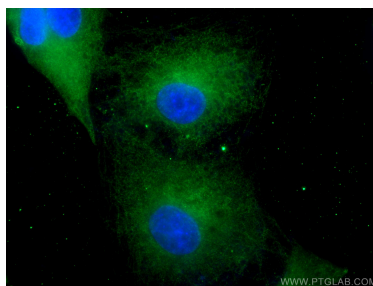
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

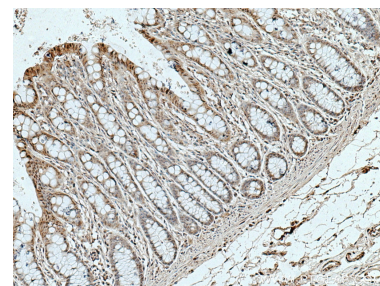
## Selected Validation Data



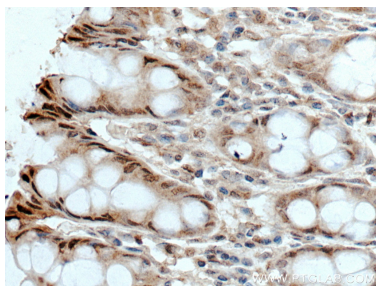
Various lysates were subjected to SDS PAGE followed by western blot with 66798-1-Ig (HPGD antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66798-1-PBS in a different storage buffer formulation.



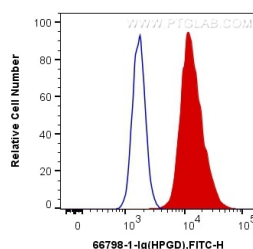
Immunofluorescent analysis of (4% PFA) fixed A549 cells using 66798-1-Ig (HPGD antibody), at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66798-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 66798-1-Ig (HPGD antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66798-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 66798-1-Ig (HPGD antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66798-1-PBS in a different storage buffer formulation.



1X10<sup>6</sup> A549 cells were intracellularly stained with 0.2 ug Anti-Human HPGD (66798-1-Ig, Clone:3F1F5) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 66798-1-PBS in a different storage buffer formulation.