

For Research Use Only

# IMPDH1 Polyclonal antibody

Catalog Number: 22092-1-AP

Featured Product

13 Publications



## Basic Information

<b>Catalog Number:</b> 22092-1-AP	<b>GenBank Accession Number:</b> BC033622	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 550 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3614	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate IHC 1:20-1:200 IF 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> IMP (inosine monophosphate) dehydrogenase 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 563 aa, 60 kDa	
<b>Immunogen Catalog Number:</b> AG17297	<b>Observed MW:</b> 53-60 kDa	

## Applications

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

**Cited Applications:**  
IF, IHC, IP, WB

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

**Cited Species:**  
human, mouse

**Positive Controls:**

**WB:** HeLa cells, mouse spleen tissue, A431 cells, K-562 cells, Raji cells, rat spleen tissue

**IP:** HeLa cells,

**IHC:** human ovary tumor tissue, human tonsillitis tissue

**IF:** HeLa cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

IMPDH1 (Inosine-5'-monophosphate dehydrogenase 1) is also named as IMPD1, IMP dehydrogenase 1 and belongs to the IMPDH/GMPR family. It catalyzes the rate limiting step of de novo guanine synthesis and an important target for the development of drugs with both chemotherapeutic and immunosuppressive activity. It may also have a role in the development of malignancy and the growth progression of some tumors. This protein has some isoforms produced by alternative splicing with the molecular mass of 53-65 kDa. This antibody may have cross reaction with IMPDH2 due to their high homology.

## Notable Publications

Author	Pubmed ID	Journal	Application
Narges Ahangari	34498062	J Neuropathol Exp Neurol	IF
Jake W Noble	27798680	PLoS One	IF
Eunus S Ali	32485148	Mol Cell	WB

## Storage

**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

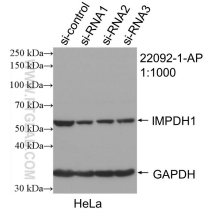
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

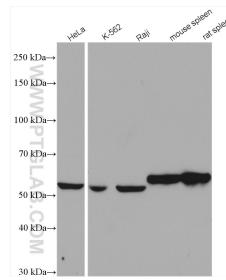
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

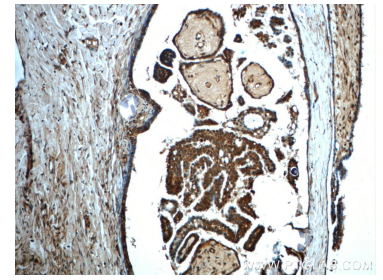
## Selected Validation Data



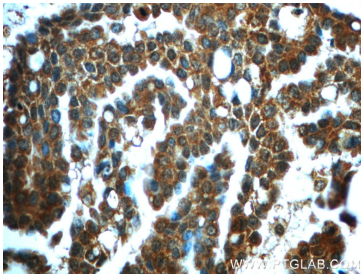
WB result of IMPDH1 antibody (22092-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-IMPDH1 transfected HeLa cells.



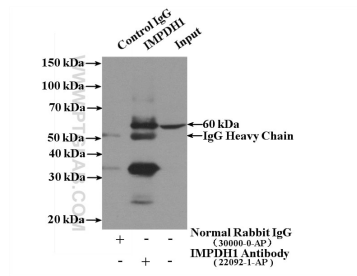
Various lysates were subjected to SDS PAGE followed by western blot with 22092-1-AP (IMPDH1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



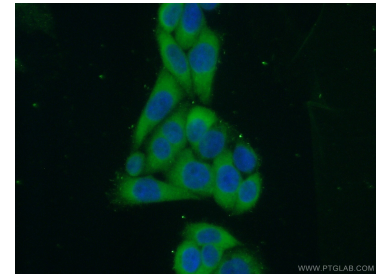
Immunohistochemical analysis of paraffin-embedded human ovary tumor slide using 22092-1-AP (IMPDH1 Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human ovary tumor slide using 22092-1-AP (IMPDH1 Antibody) at dilution of 1:50.



IP Result of anti-IMPDH1 (IP:22092-1-AP, 4ug; Detection:22092-1-AP 1:2000) with HeLa cells lysate 3200ug.



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 22092-1-AP (IMPDH1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).