For Research Use Only

IMPDH1 Polyclonal antibody

Catalog Number:22092-1-AP Featured Product 17 Publications

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Basic Information

Catalog Number:
22092-1-AP

Size:
550 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG17297

GenBank Accession Number:
BC033622

GeneID (NCBI):
3614

UNIPROT ID:
P20839

Full Name:
IMP (inosine monophosphate) dehydrogenase 1

Calculated MW:
563 aa, 60 kDa

Observed MW:
53-60 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:6000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:800-1:3200
IF/ICC 1:20-1:200

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

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

Positive Controls:

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

IP : HeLa cells,

IHC : human tonsillitis tissue, human ovary tumor tissue

IF/ICC : HeLa cells,

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 has cross reaction with IMPDH2 due to their high homology.

Notable Publications

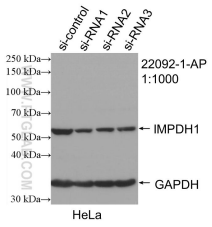
Author	Pubmed ID	Journal	Application
Narges Ahangari	34498062	J Neuropathol Exp Neurol	IF
Jake W Noble	27798680	PLoS One	IF
Eunus S Ali	32485148	Mol Cell	WB

Storage

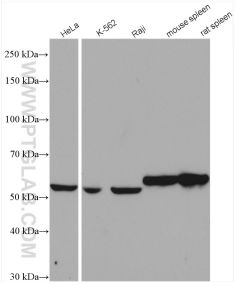
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

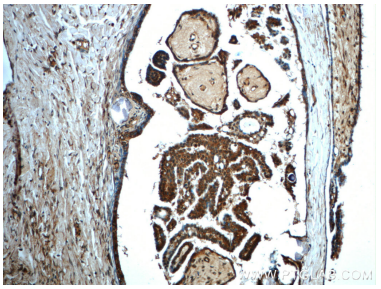
Selected Validation Data



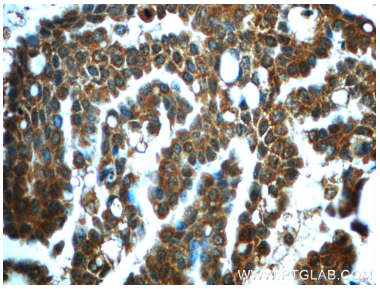
WB result of IMPDH1 antibody (22092-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-IMPDH1 transfected HeLa cells.



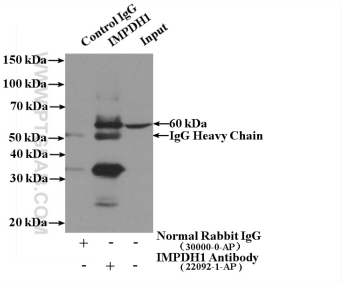
Various lysates were subjected to SDS PAGE followed by western blot with 22092-1-AP (IMPDH1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



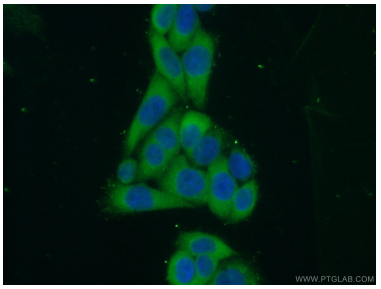
Immunohistochemical analysis of paraffin-embedded human ovary tumor slide using 22092-1-AP (IMPDH1 Antibody) at dilution of 1:50.



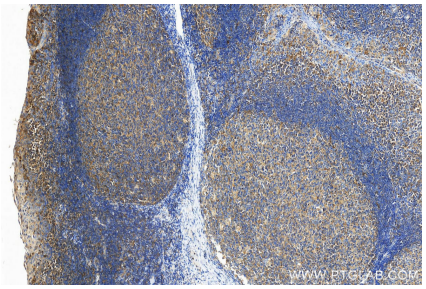
Immunohistochemical analysis of paraffin-embedded human ovary tumor slide using 22092-1-AP (IMPDH1 Antibody) at dilution of 1:50.



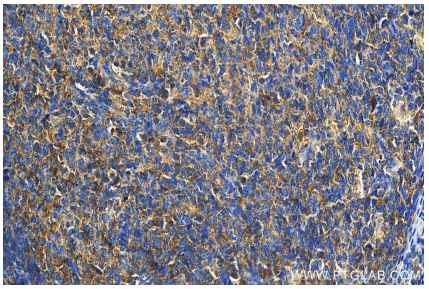
IP result of anti-IMPDH1 (IP:22092-1-AP, 4ug; Detection:22092-1-AP 1:2000) with HeLa cells lysate 3200ug.



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).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 22092-1-AP (IMPDH1 antibody) at dilution of 1:1600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 22092-1-AP (IMPDH1 antibody) at dilution of 1:1600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).