

For Research Use Only

IMPDH2 Monoclonal antibody

Catalog Number: 67663-1-Ig

Featured Product

3 Publications



Basic Information

Catalog Number: 67663-1-Ig	GenBank Accession Number: BC012840	Purification Method: Protein A purification
Size: 150ul , Concentration: 500 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3615	CloneNo.: 1B1G8
Source: Mouse	UNIPROT ID: P12268	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:200-1:800
Isotype: IgG1	Full Name: IMP (inosine monophosphate) dehydrogenase 2	
Immunogen Catalog Number: AG17170	Calculated MW: 514 aa, 56 kDa	
	Observed MW: 56 kDa	

Applications

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

Cited Applications:
WB, IHC, IF, ColP

Species Specificity:
Human, mouse, rat

Cited Species:
human

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: A549 cells, HSC-T6 cells, 4T1 cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, PC-12 cells

IHC: human breast hyperplasia tissue,

IF/ICC: A549 cells,

Background Information

IMPDH2, also named as IMPD2, belongs to the IMPDH/GMPR family. It is a rate limiting enzyme in the de novo synthesis of guanine nucleotides and therefore is involved in the regulation of cell growth. It may also have a role in the development of malignancy and the growth progression of some tumors. IMPDH2 is a key enzyme in the purine nucleotide biosynthetic pathway and constitutes a pivotal biological target for immunosuppressant and antiviral drugs. (PMID:21181270)

Notable Publications

Author	Pubmed ID	Journal	Application
Anna Bianchi-Smiraglia	34667203	Nat Commun	WB
Jing Zhou	39023358	Epigenomics	WB
Hongyu Yuan	37752569	J Exp Clin Cancer Res	WB,IHC,IF,ColP

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

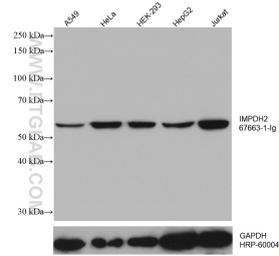
For technical support and original validation data for this product please contact:

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

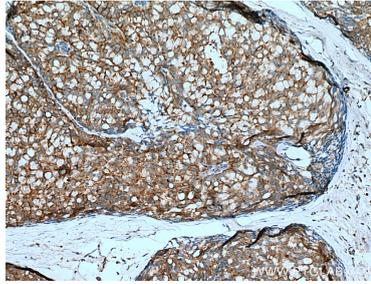
E: proteintech@ptglab.com
W: ptglab.com

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

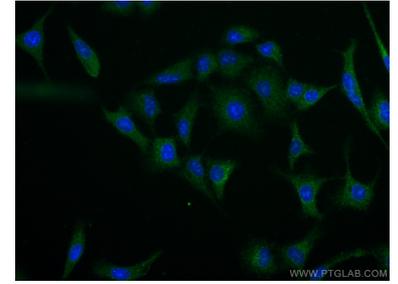
Selected Validation Data



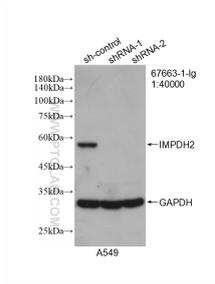
Various lysates were subjected to SDS PAGE followed by western blot with 67663-1-Ig (IMPDH2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded human breast hyperplasia tissue slide using 67663-1-Ig (IMPDH2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed A549 cells using IMPDH2 antibody (67663-1-Ig, Clone: 1B1G8) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



WB result of IMPDH2 antibody (67663-1-Ig; 1:40000; incubated at room temperature for 1.5 hours) with sh-Control and sh-IMP2 transfected A549 cells.