

ARG40388 anti-IMPDH2 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes IMPDH2
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	IMPDH2
Species	Human
Immunogen	Recombinant full length protein of Human IMPDH2.
Conjugation	Un-conjugated
Alternate Names	IMPD2; EC 1.1.1.205; IMPDH-II; IMP dehydrogenase 2; IMPD 2; Inosine-5'-monophosphate dehydrogenase 2; IMPDH 2

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	56 kDa	

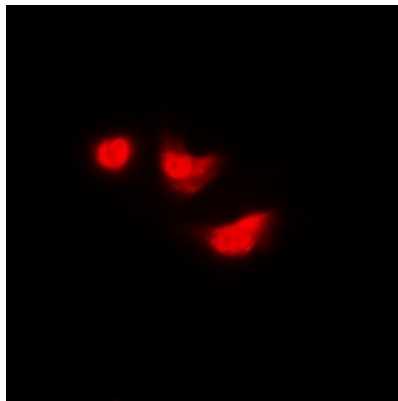
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.42% Potassium phosphate (pH 7.3), 0.87% NaCl, 0.01% Sodium azide and 30% Glycerol.
Preservative	0.01% Sodium azide
Stabilizer	30% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

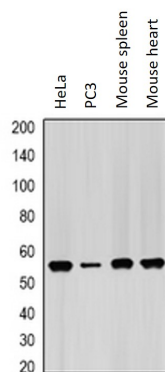
Gene Symbol	IMPDH2
Gene Full Name	IMP (inosine 5'-monophosphate) dehydrogenase 2
Background	This gene encodes the rate-limiting enzyme in the de novo guanine nucleotide biosynthesis. It is thus involved in maintaining cellular guanine deoxy- and ribonucleotide pools needed for DNA and RNA synthesis. The encoded protein catalyzes the NAD-dependent oxidation of inosine-5'-monophosphate into xanthine-5'-monophosphate, which is then converted into guanosine-5'-monophosphate. This gene is up-regulated in some neoplasms, suggesting it may play a role in malignant transformation. [provided by RefSeq, Jul 2008]
Function	Catalyzes the conversion of inosine 5'-phosphate (IMP) to xanthosine 5'-phosphate (XMP), the first committed and rate-limiting step in the de novo synthesis of guanine nucleotides, and therefore plays an important role in the regulation of cell growth. Could also have a single-stranded nucleic acid-binding activity and could play a role in RNA and/or DNA metabolism. It may also have a role in the development of malignancy and the growth progression of some tumors. [UniProt]
Calculated Mw	56 kDa
PTM	The N-terminus is blocked. [UniProt]
Cellular Localization	Cytoplasm. Nucleus. [UniProt]

Images



ARG40388 anti-IMPDH2 antibody ICC/IF image

Immunofluorescence: Formalin-fixed HeLa cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were stained with ARG40388 anti-IMPDH2 antibody (red) in 3% BSA-PBS and incubated overnight at 4°C.



ARG40388 anti-IMPDH2 antibody WB image

Western blot: HeLa, PC3, Mouse spleen and Mouse heart lysates stained with ARG40388 anti-IMPDH2 antibody.