

Anti-IMPDH2 Rabbit Monoclonal Antibody

Catalog # ABO15471

Product Information

Application	WB, IHC, IF, ICC, IP, FC
Primary Accession	P12268
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-IMPDH2 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	3615
Other Names	Inosine-5'-monophosphate dehydrogenase 2, IMP dehydrogenase 2, IMPD 2, IMPDH 2, 1.1.1.205, Inosine-5'-monophosphate dehydrogenase type II, IMP dehydrogenase II, IMPDH-II, IMPDH2 (HGNC:6053), IMPD2
Calculated MW	55805
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200 IP 1:50 FC 1:50
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 20I47
Immunogen	A synthesized peptide derived from human IMPDH2
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	IMPDH2 (HGNC:6053)
-------------	--------------------------------------

Synonyms

IMPD2

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 (PubMed:[7763314](#), PubMed:[7903306](#)). Could also have a single-stranded nucleic acid-binding activity and could play a role in RNA and/or DNA metabolism (PubMed:[14766016](#)). It may also have a role in the development of malignancy and the growth progression of some tumors.

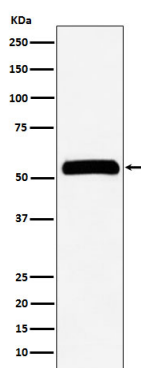
Cellular Location

Cytoplasm. Nucleus. Cytoplasm, cytosol. Note=Can form fiber-like subcellular structures termed 'cytoophidia' in response to intracellular guanine-nucleotide depletion.

Tissue Location

IMPDH1 is the main species in normal leukocytes and IMPDH2 predominates over IMPDH1 in the tumor

Images



Western blot analysis of IMPDH2 expression in HeLa cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.