

Rabbit IMPDH2 Polyclonal Antibody | anti-IMPDH2 antibody

IMPDH2 Antibody

CATALOG # AAA326994	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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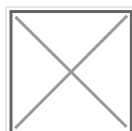
PRODUCT SYNONYMS

IMPDH2; Polyclonal Antibody; IMPDH2 Antibody; IMDH2_HUMAN; IMP (inosine monophosphate) dehydrogenase 2; IMP dehydrogenase 2; IMP oxidoreductase 2; IMPD 2; IMPD2; IMPDH 2; IMPDH II; IMPDH-II; Impdh2; Inosine 5' monophosphate dehydrogenase 2; Inosine 5' phosphate dehydrogenase 2; Inosine monophosphate dehydrogenase type II; Inosine-5''-monophosphate dehydrogenase 2; anti-IMPDH2 antibody

PRODUCT SPECIFICATIONS

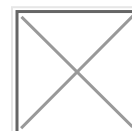
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	IMPDH2 antibody detects endogenous levels of total IMPDH2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	514
Applicable Applications for anti-IMPDH2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human IMPDH2
Subcellular Location	Nucleus
Tissue Specificity	IMP type I is the main species in normal leukocytes and type II predominates over type I in the tumor.
Predicted Cross Reactivity	Pig, Horse, Dog
Similarity	Pig (88%), Horse (88%), Dog (88%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA326994 at 1/100 staining Mouse heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Hepg2 whole cell lysates, using IMPDH2 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-IMPDH2 antibody	Description: 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. 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. Subunit Structure: Homotetramer (PubMed:7903306, Ref. 24, Ref. 25). Interacts with CLOCK; in a circadian manner (PubMed:28985504). Post-translational Modifications: The N-terminus is blocked. Acetylated by CLOCK in a circadian manner (PubMed:28985504). Similarity: Belongs to the IMPDH/GMPR family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	66933016
NCBI GeneID	3615
NCBI Accession #	NP_000875.2
NCBI GenBank Nucleotide #	NM_000884.2
UniProt Accession #	P12268; Q6LEF3
Molecular Weight	Observed: 55 kDa Predicted: 56 kDa
NCBI Official Full Name	inosine-5'-monophosphate dehydrogenase 2
NCBI Official Synonym Full Names	inosine monophosphate dehydrogenase 2
NCBI Official Symbol	IMPDH2
NCBI Official Synonym Symbols	IMPD2; IMPDH-II
NCBI Protein Information	inosine-5'-monophosphate dehydrogenase 2
UniProt Protein Name	Inosine-5'-monophosphate dehydrogenase 2
UniProt Gene Name	IMPDH2
UniProt Synonym Gene Names	IMPD2; IMP dehydrogenase 2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/impdh2-antibody-immunohistochemistry-western-blot-elisa/326994>