IMPDH2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IMPDH2, Polyclonal Antibody
Full Product Name	IMPDH2 (Center) Rabbit pAb
Product Gene Name	anti-IMPDH2 antibody
Product Synonym Names	Inosine-5'-monophosphate dehydrogenase 2 {ECO:0000255|HAMAP-Rule:MF_03156}; IMP dehydrogenase 2 {ECO:0000255|HAMAP-Rule:MF_03156}; IMPD 2 {ECO:0000255|HAMAP-Rule:MF_03156}; IMPDH 2 {ECO:0000255|HAMAP-Rule:MF_03156}; 111205 {ECO:0000255|HAMAP-Rule:MF_03156}; IMPDH-II; IMPDH2 {ECO:0000255|HAMAP-Rule:MF_03156}; IMPD2
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB19383
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Purity/Purification	Affinity Purified
OMIM	146691
3D Structure	ModBase 3D Structure for P12268
Immunogen	This IMPDH2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 180-210 amino acids from the central region of human IMPDH2.
Cellular Localization	Cytoplasm, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-IMPDH2 antibody	Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-IMPDH2 antibody	WB: 1:1000 IHC: 1:50-100 FC/FACS: 1:10-50
Related Product Information for anti-IMPDH2 antibody	MBS8554960 is an antibody targeting IMPDH2. Also known as IMPDH2 (Center) Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-IMPDH2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IMPDH2. It may not necessarily be applicable to this product.

NCBI GI #	66933016
NCBI GeneID	3615
NCBI Accession #	NP_000875.2

UniProt Primary Accession #	P12268
UniProt Related Accession #	P12268
GenBank Nucleotide #	NP_000875.2
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
UniProt Protein Name	Inosine-5'-monophosphate dehydrogenase 2
UniProt Synonym Protein Names	IMPDH-II
UniProt Gene Name	IMPDH2
UniProt Entry Name	IMDH2_HUMAN
NCBI Protein Information	inosine-5'-monophosphate dehydrogenase 2
NCBI Summary for IMPDH2	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]
UniProt Comments for IMPDH2	IMPDH2: 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. Protein type: Oxidoreductase; EC 1.1.1.205; Xenobiotic Metabolism - drug metabolism - other enzymes; Nucleotide Metabolism - purine Chromosomal Location of Human Ortholog: 3p21.2 Cellular Component: peroxisomal membrane; membrane; cytoplasm; nucleus; cytosol Molecular Function: DNA binding; RNA binding; metal ion binding; nucleotide binding; IMP dehydrogenase activity Biological Process: purine ribonucleoside monophosphate biosynthetic process; lymphocyte proliferation; nucleobase, nucleoside and nucleotide metabolic process; retina development in camera-type eye; GMP biosynthetic process; purine base metabolic process; protein homotetramerization
Research Articles on IMPDH2	**1.** association of T/C and C/C genotypes in the SNP rs11706052 (IMPDH2) with the occurrence of rejection episodes considering only patients who received immunosuppressive drug mycophenolate mofetil associated with cyclosporine or tacrolimus and corticoids, demonstrated association with a protection against rejection 15.6-fold
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/impdh2/8554960