

KD-Validated Anti-IMPDH2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1076

Product Information

Application	WB, FC, ICC
Primary Accession	P12268
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB6135
Calculated MW	55805
Gene Name	IMPDH2
Aliases	IMPDH2; Inosine Monophosphate Dehydrogenase 2; IMP (Inosine 5'-Monophosphate) Dehydrogenase 2; Inosine-5'-Monophosphate Dehydrogenase Type II; Inosine-5'-Monophosphate Dehydrogenase 2; IMP Dehydrogenase II; EC 1.1.1.205; IMPDH-II; IMPDH 2; IMPD 2; IMPD2; IMP (Inosine Monophosphate) Dehydrogenase 2; Inosine Monophosphate Dehydrogenase Type II; Epididymis Secretory Sperm Binding Protein; Inosine 5' Phosphate Dehydrogenase 2; IMP Dehydrogenase 2; IMP Oxireductase 2
Immunogen	A synthesized peptide derived from human IMPDH2

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

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

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