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IMPDH2 Antibody

Rabbit mAb
Catalog # AP92007

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	P12268
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	IMPD2; IMPDH 2; IMPDH II; Impdh2;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	55805

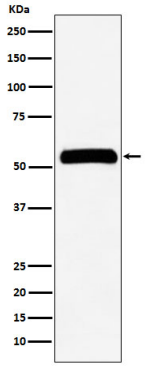
Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human IMPDH2
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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.