



Anti-Inosine5'-monophosphate Dehydrogenase (IMPDH) [1D6-E3] Standard  
Size, 200 µg, Ab02556-10.3  
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## **Anti-Inosine5'-monophosphate Dehydrogenase (IMPDH) [1D6-E3] Standard Size Ab02556-10.3**

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG2b format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human IgG1, Fc Silent™, Kappa

**Clone Number:** 1D6-E3

**Alternative Name(s) of Target:** Inosine-5'-monophosphate dehydrogenase 2; IMPDH2; IMP dehydrogenase 2; IMPD 2; IMPDH 2; IMPDH-II

**UniProt Accession Number of Target Protein:** P12269

**Published Application(s):** WB

**Published Species Reactivity:** Human, Rodent

**Immunogen:** The antibody was generated by immunizing a mouse with the purified Chinese hamster IMPDH protein.

**Specificity:** This antibody is specific for the IMPDH protein in both humans and rodents. IMPDH 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.

**Application Notes:** This antibody was used for a western blot on proteins from E.coli cells that were made to express IMPDH (Hager et al, 1995; pmid:7763314). HL-205 cells were used in a peroxidase-based western blot with this antibody (Glesne et al, 1991; pmid:1717828).

**Antibody First Published in:** Glesne et al. Regulation of IMP Dehydrogenase Gene Expression by Its End Products, Guanine Nucleotides MOLECULAR AND CELLULAR BIOLOGY, Nov. 1991, p. 5417-5425

**PMID:**[1717828](https://pubmed.ncbi.nlm.nih.gov/1717828/)

**Note on publication:** the regulation of IMP dehydrogenase (IMPDH), the rate-limiting enzyme of guanine nucleotide biosynthesis was studied, the effects of nucleosides, nucleotides, nucleotide analogs, or the IMPDH inhibitor mycophenolic acid (MPA) on the steady-state levels of IMPDH mRNA were examined.

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.