Anti-Inosine5'-monophosphate Dehydrogenase (IMPDH) [1D6-E3] Standard Size Ab02556-3.3

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

Isotype and Format: Mouse IgG2b, 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
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 4ºC for up to 3 months. For longer storage, aliquot and store at -20ºC.
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.