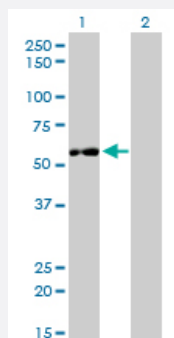


IMPDH2 monoclonal antibody (M01), clone 1E12-B6

Catalog # H00003615-M01

Size 100 ug

Applications

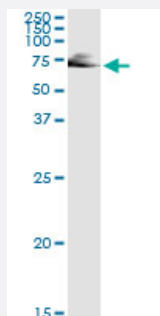


Western Blot (Transfected lysate)

Western Blot analysis of IMPDH2 expression in transfected 293T cell line by IMPDH2 monoclonal antibody (M01), clone 1E12-B6.

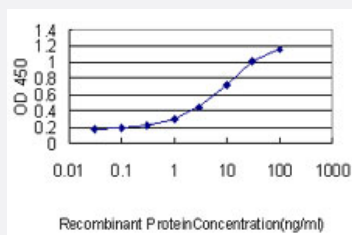
Lane 1: IMPDH2 transfected lysate (55.8 KDa).

Lane 2: Non-transfected lysate.



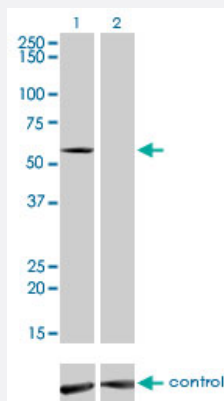
Immunoprecipitation

Immunoprecipitation of IMPDH2 transfected lysate using anti-IMPDH2 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with IMPDH2 MaxPab rabbit polyclonal antibody.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged IMPDH2 is approximately 0.3 ng/ml as a capture antibody.



RNAi Knockdown (Antibody validated)

Western blot analysis of IMPDH2 over-expressed 293 cell line, cotransfected with IMPDH2 Validated Chimera RNAi (Cat # H00003615-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with IMPDH2 monoclonal antibody (M01), clone 1E12-B6 (Cat # H00003615-M01). GAPDH (36.1 kDa) used as specificity and loading control.

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant IMPDH2.
Immunogen	IMPDH2 (AAH12840, 1 a.a. ~ 514 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MADYLISGGTSYVPDDGLTAQQLFNCGDGLTYNDFLILPGYIDFTADQVDLTSAITKKITLKTPLVSS PMDTVTEAGMAIAMALTGGIGFIHHNCTPEFQANEVRKVKKYEQGFITDPVVLSPKDRVRDVFEAK ARHGFCGIPITDTGRMGSRVLGIISSRDIDFLKEEEHDCFLEEIMTKREDLVVAPAGITLKEANEILQR SKKGKLPVNEDDELVAIARTDLKKNRDYPLASKDAKKQLLCGAAIGTHEDDKYRLDLLAQAGVD VVVLDSSQGNSIFQINMIKYIKDKYPNLQVIGGNVVTAAQAQNLIDAGVDALRVGMGSGSICITQEVL ACGRPQATAVYKVSEYARRFGVPVIADGGIQNVGHIKALALGASTVMMGSLLAATTEAPGEYFF SDGIRLKKYRGMGSLDAMDKHLSSQNRYFSEADKIKVAQGVSGAVQDKGSIHKFVPYLIAGIQHSC QDIGAKSLTQVRAMMYSGELKFERTSSAQVEGGVHSLHSYERLRF
Host	Mouse
Reactivity	Human
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

Western Blot analysis of IMPDH2 expression in transfected 293T cell line by IMPDH2 monoclonal antibody (M01), clone 1E12-B6.

Lane 1: IMPDH2 transfected lysate(55.8 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of IMPDH2 transfected lysate using anti-IMPDH2 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with IMPDH2 MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged IMPDH2 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of IMPDH2 over-expressed 293 cell line, cotransfected with IMPDH2 Validated Chimera RNAi (Cat # H00003615-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with IMPDH2 monoclonal antibody (M01), clone 1E12-B6 (Cat # H00003615-M01). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

Gene Info — IMPDH2

Entrez GeneID [3615](#)

GeneBank Accession# [BC012840](#)

Protein Accession# [AAH12840](#)

Gene Name IMPDH2

Gene Alias IMPD2, IMPDH-II

Gene Description IMP (inosine monophosphate) dehydrogenase 2

Omim ID [146691](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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]

Other Designations

IMP dehydrogenase 2|IMP oxireductase 2|inosine 5' phosphate dehydrogenase 2|inosine monophosphate dehydrogenase 2|inosine monophosphate dehydrogenase type II|inosine monophosphate oxireductase 2

Publication Reference

- [Proteomic analysis of the effects of the immunomodulatory mycotoxin deoxynivalenol.](#)

da Costa AN, Mijal RS, Keen JN, Findlay JB, Wild CP.

Proteomics 2011 May; 11(10):1903.

Application: Flow Cyt, Human, RPMI 1788, Jurkat E6.1 cells

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Drug metabolism - other enzymes](#)
- [Metabolic pathways](#)
- [Purine metabolism](#)

Disease

- [Arthritis](#)
- [Disease Progression](#)
- [Gastroenteritis](#)
- [Genetic Predisposition to Disease](#)
- [Inflammatory Bowel Diseases](#)
- [Kidney Failure](#)
- [Schizophrenia](#)