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IMPDH2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant IMPDH2.
Catalog # AT2530a

Product Information

Application	WB, IP, E
Primary Accession	P12268
Other Accession	BC012840
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	1E12-B6
Calculated MW	55805

Additional Information

Gene ID	3615
Other Names	Inosine-5'-monophosphate dehydrogenase 2 {ECO:0000255|HAMAP-Rule:MF_03156}, IMP dehydrogenase 2 {ECO:0000255|HAMAP-Rule:MF_03156}, IMPD 2 {ECO:0000255|HAMAP-Rule:MF_03156}, IMPDH 2 {ECO:0000255|HAMAP-Rule:MF_03156}, 111205 {ECO:0000255|HAMAP-Rule:MF_03156}, IMPDH-II, IMPDH2 {ECO:0000255|HAMAP-Rule:MF_03156}, IMPD2
Target/Specificity	IMPDH2 (AAH12840, 1 a.a. ~ 514 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IP~~N/A E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	IMPDH2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

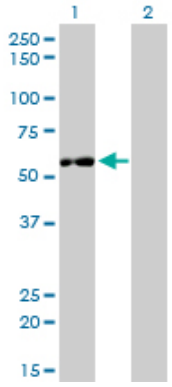
Background

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.

References

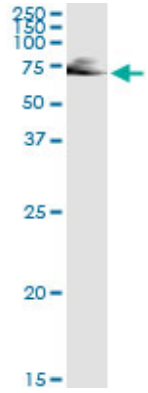
1.Proteomic analysis of the effects of the immunomodulatory mycotoxin deoxynivalenol.da Costa AN, Mijal RS, Keen JN, Findlay JB, Wild CP.Proteomics. 2011 Mar 9. doi: 10.1002/pmic.201000580. [Epub ahead of print]

Images

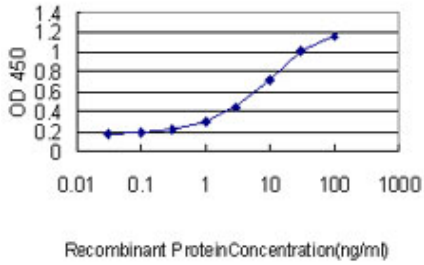


Western Blot analysis of IMPDH2 expression in transfected 293T cell line by IMPDH2 monoclonal antibody (M01), clone 1E12-B6.

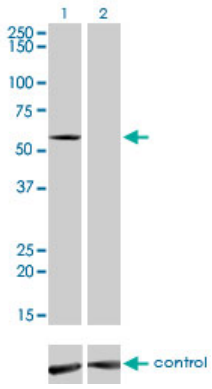
Lane 1: IMPDH2 transfected lysate(55.8 KDa).
Lane 2: Non-transfected lysate.



Immunoprecipitation of IMPDH2 transfected lysate using anti-IMPDH2 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with IMPDH2 MaxPab rabbit polyclonal antibody.



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



Western blot analysis of IMPDH2 over-expressed 293 cell line, cotransfected with IMPDH2 Validated Chimera RNAi ((Cat # AT2530a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.