

# IMPDH2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant IMPDH2.

Catalog # AT2530a

## Product Information

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<b>Application</b>	WB, IP, E
<b>Primary Accession</b>	<a href="#">P12268</a>
<b>Other Accession</b>	<a href="#">BC012840</a>
<b>Reactivity</b>	Human
<b>Host</b>	mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG1 kappa
<b>Clone Names</b>	1E12-B6
<b>Calculated MW</b>	55805

## Additional Information

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<b>Gene ID</b>	3615
<b>Other Names</b>	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
<b>Target/Specificity</b>	IMPDH2 (AAH12840, 1 a.a. ~ 514 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	WB~~1:500~1000 IP~~N/A E~~N/A
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	IMPDH2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

## Background

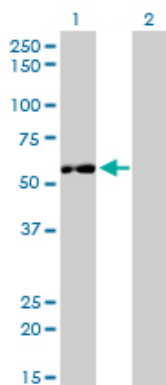
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This gene encodes the rate-limiting enzyme in the de novo guanine nucleotide biosynthesis. It is thus involved in maintaining cellular guanine deoxy- and ribonucleotide pools needed for DNA and RNA synthesis. The encoded protein catalyzes the NAD-dependent 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

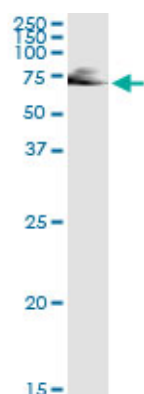
1. Proteomic analysis of the effects of the immunomodulatory mycotoxin deoxynivalenol. da Costa AN, Mijal RS, Keen JN, Findlay JB, Wild CP. *Proteomics*. 2011 Mar 9. doi: 10.1002/pmic.201000580. [Epub ahead of print]

## Images

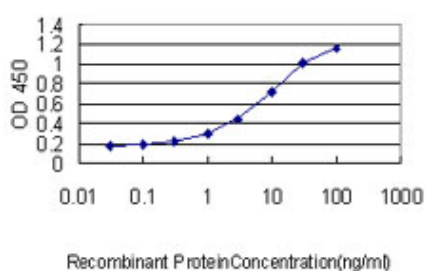


Western Blot analysis of IMPDH2 expression in transfected 293T cell line by IMPDH2 monoclonal antibody (M01), clone 1E12-B6.

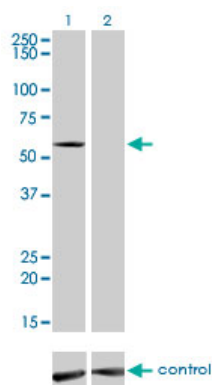
Lane 1: IMPDH2 transfected lysate (55.8 kDa).  
Lane 2: Non-transfected lysate.



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 0.3 ng/ml as a capture antibody.



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