

# IMPDH1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant IMPDH1.

Catalog # AT2529a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P20839</a>
<b>Other Accession</b>	<a href="#">NM_000883</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG1 Kappa
<b>Clone Names</b>	3G6
<b>Calculated MW</b>	55406

## Additional Information

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<b>Gene ID</b>	3614
<b>Other Names</b>	Inosine-5'-monophosphate dehydrogenase 1 {ECO:0000255 HAMAP-Rule:MF_03156}, IMP dehydrogenase 1 {ECO:0000255 HAMAP-Rule:MF_03156}, IMPD 1 {ECO:0000255 HAMAP-Rule:MF_03156}, IMPDH 1 {ECO:0000255 HAMAP-Rule:MF_03156}, 111205 {ECO:0000255 HAMAP-Rule:MF_03156}, IMPDH-I, IMPDH1 {ECO:0000255 HAMAP-Rule:MF_03156}, IMPD1
<b>Target/Specificity</b>	IMPDH1 (NP_000874, 201 a.a. ~ 300 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	WB~~1:500~1000 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>	IMPDH1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

## Background

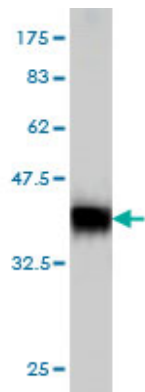
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The protein encoded by this gene acts as a homotetramer to regulate cell growth. The encoded protein is an enzyme that catalyzes the synthesis of xanthine monophosphate (XMP) from inosine-5'-monophosphate (IMP). This is the rate-limiting step in the de novo synthesis of guanine nucleotides. Defects in this gene are a cause of retinitis pigmentosa type 10 (RP10). Several transcript variants encoding different isoforms have been found for this gene.

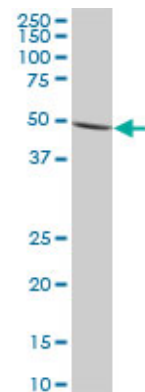
References

1.Novel Direct Targets of miR-19a Identified in Breast Cancer Cells by a Quantitative Proteomic Approach.Ouchida M, Kanzaki H, Ito S, Hanafusa H, Jitsumori Y, Tamaru S, Shimizu K.PLoS One. 2012;7(8):e44095. Epub 2012 Aug 30.2.Hydroxamic acid derivatives of mycophenolic acid inhibit histone deacetylase at the cellular level.Batovska DI, Kim DH, Mitsunashi S, Cho YS, Kwon HJ, Ubukata M.Biosci Biotechnol Biochem. 2008 Oct;72(10):2623-31. Epub 2008 Oct 7.

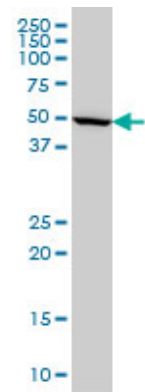
Images



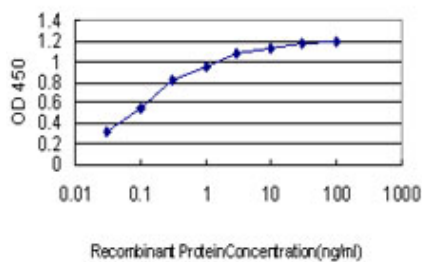
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



IMPDH1 monoclonal antibody (M01), clone 3G6. Western Blot analysis of IMPDH1 expression in HeLa ( (Cat # AT2529a )



IMPDH1 monoclonal antibody (M01), clone 3G6 Western Blot analysis of IMPDH1 expression in Hela S3 NE ( (Cat # AT2529a )



Detection limit for recombinant GST tagged IMPDH1 is approximately 0.03ng/ml as a capture antibody.

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