10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

IMPDH1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant IMPDH1.
Catalog # AT2529a

Product Information

Application	WB, E
Primary Accession	P20839
Other Accession	NM_000883
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3G6
Calculated MW	55406

Additional Information

Gene ID	3614
Other Names	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
Target/Specificity	IMPDH1 (NP_000874, 201 a.a. ~ 300 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 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	IMPDH1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

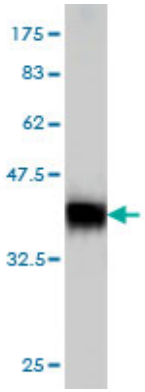
Background

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.

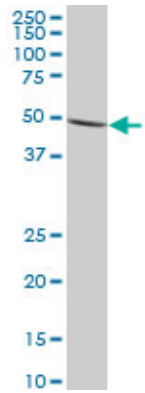
References

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, Mitsuhashi S, Cho YS, Kwon HJ, Ubukata M.Biosci Biotechnol Biochem. 2008 Oct;72(10):2623-31. Epub 2008 Oct 7.

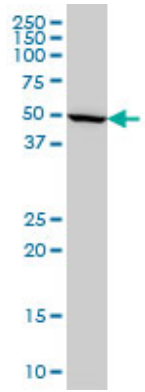
Images



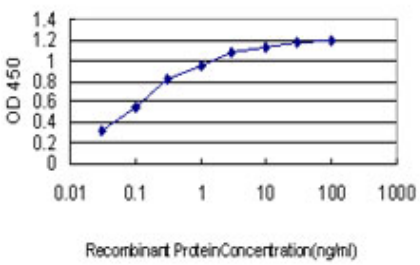
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



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'.