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DHODH Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant DHODH.
Catalog # AT1759a

Product Information

Application	WB, IHC, E
Primary Accession	Q02127
Other Accession	NM_001361
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Lambda
Clone Names	60
Calculated MW	42867

Additional Information

Gene ID	1723
Other Names	Dihydroorotate dehydrogenase (quinone), mitochondrial, DHOdehase, Dihydroorotate oxidase, DHODH
Target/Specificity	DHODH (NP_001352, 32 a.a. ~ 140 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 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	DHODH Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

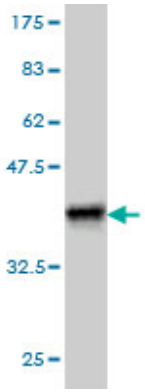
The protein encoded by this gene catalyzes the fourth enzymatic step, the ubiquinone-mediated oxidation of dihydroorotate to orotate, in de novo pyrimidine biosynthesis. This protein is a mitochondrial protein located on the outer surface of the inner mitochondrial membrane.

References

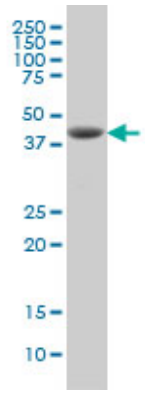
Exome sequencing identifies the cause of a mendelian disorder. Ng SB, et al. Nat Genet, 2010 Jan. PMID 19915526.Dihydroorotate dehydrogenase polymorphism influences the toxicity of leflunomide treatment in patients with rheumatoid arthritis. Grabar PB, et al. Ann Rheum Dis, 2009 Aug. PMID 19605743.The effect of

exon (19C>A) dihydroorotate dehydrogenase gene polymorphism on rheumatoid arthritis treatment with leflunomide. Pawlik A, et al. Pharmacogenomics, 2009 Feb. PMID 19207032.Conduct disorder and ADHD: evaluation of conduct problems as a categorical and quantitative trait in the international multicentre ADHD genetics study. Anney RJ, et al. Am J Med Genet B Neuropsychiatr Genet, 2008 Dec 5. PMID 18951430.The structures of human dihydroorotate dehydrogenase with and without inhibitor reveal conformational flexibility in the inhibitor and substrate binding sites. Walse B, et al. Biochemistry, 2008 Aug 26. PMID 18672895.

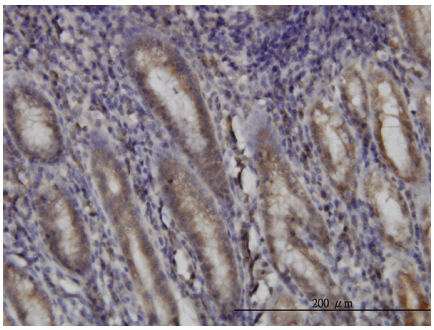
Images



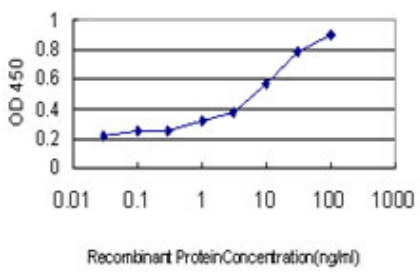
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.73 KDa) .



DHODH monoclonal antibody (M01), clone 6E1 Western Blot analysis of DHODH expression in MCF-7 ((Cat # AT1759a)



Immunoperoxidase of monoclonal antibody to DHODH on formalin-fixed paraffin-embedded human stomach. [antibody concentration 3 ug/ml]



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

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