

DHODH Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant DHODH.

Catalog # AT1759a

Specification

DHODH Antibody (monoclonal) (M01) - Product Information

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

DHODH Antibody (monoclonal) (M01) - 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.

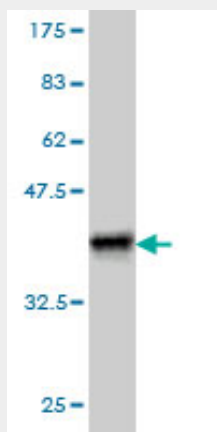
DHODH Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

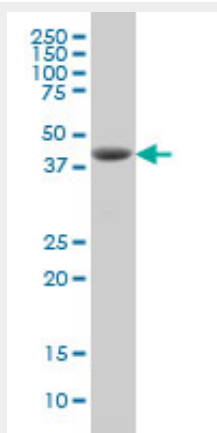
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

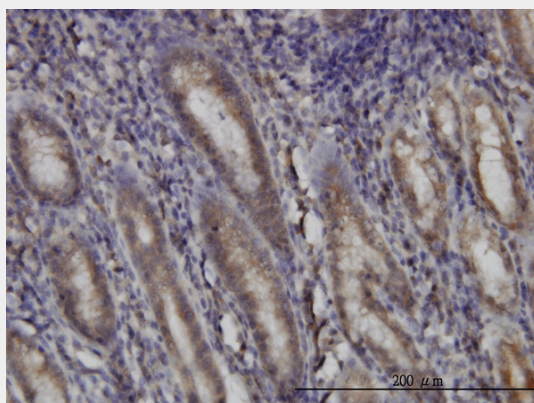
DHODH Antibody (monoclonal) (M01) - Images



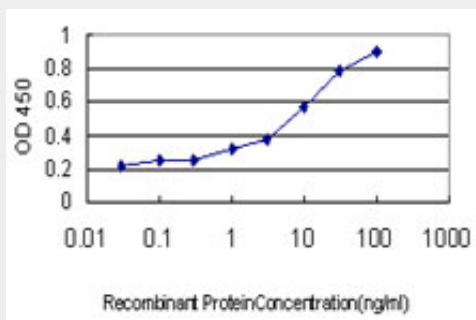
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.73 KDa) .



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.

DHODH Antibody (monoclonal) (M01) - 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.

DHODH Antibody (monoclonal) (M01) - 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.