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

DLD Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a full length recombinant DLD.
Catalog # AT1771a

Product Information

Application	WB, IHC, E
Primary Accession	P09622
Other Accession	BC018696
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG3 Kappa
Clone Names	2D4
Calculated MW	54177

Additional Information

Gene ID	1738
Other Names	Dihydrolipoyl dehydrogenase, mitochondrial, Dihydrolipoamide dehydrogenase, Glycine cleavage system L protein, DLD, GCSL, LAD, PHE3
Target/Specificity	DLD (AAH18696, 1 a.a. ~ 509 a.a) full-length 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	DLD Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

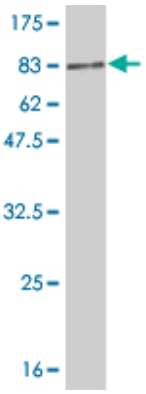
This gene encodes the L protein of the mitochondrial glycine cleavage system. The L protein, also named dihydrolipoamide dehydrogenase, is also a component of the pyruvate dehydrogenase complex, the alpha-ketoglutarate dehydrogenase complex, and the branched-chain alpha-keto acide dehydrogenase complex. Mutations in this gene have been identified in patients with E3-deficient maple syrup urine disease and lipoamide dehydrogenase deficiency.

References

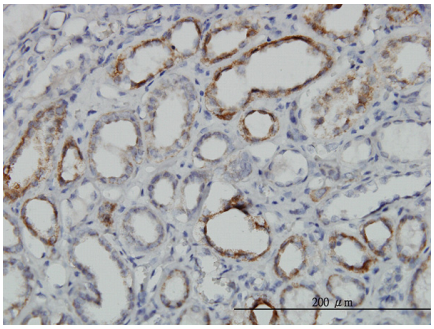
A genome-wide association study identifies three new susceptibility loci for ulcerative colitis in the Japanese

population. Asano K, et al. Nat Genet, 2009 Dec. PMID 19915573.Genome-wide association study of ulcerative colitis identifies three new susceptibility loci, including the HNF4A region. UK IBD Genetics Consortium, et al. Nat Genet, 2009 Dec. PMID 19915572.Proteome analysis of schizophrenia patients Wernicke's area reveals an energy metabolism dysregulation. Martins-de-Souza D, et al. BMC Psychiatry, 2009 Apr 30. PMID 19405953.Ulcerative colitis-risk loci on chromosomes 1p36 and 12q15 found by genome-wide association study. Silverberg MS, et al. Nat Genet, 2009 Feb. PMID 19122664.The role of amino acids T148 and R281 in human dihydrolipoamide dehydrogenase. Wang YC, et al. J Biomed Sci, 2008 Jan. PMID 17960497.

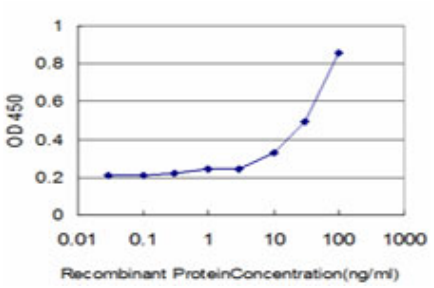
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (81.73 KDa) .



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



Detection limit for recombinant GST tagged DLD is approximately 1ng/ml as a capture antibody.

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