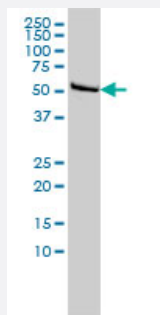


DLD monoclonal antibody (M02), clone 3C1

Catalog # H00001738-M02

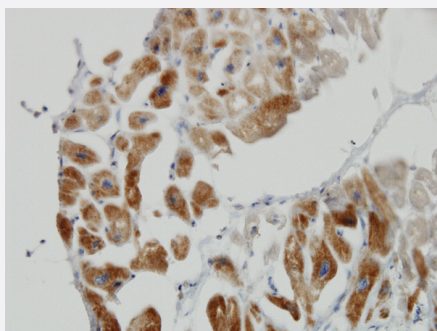
Size 100 ug

Applications



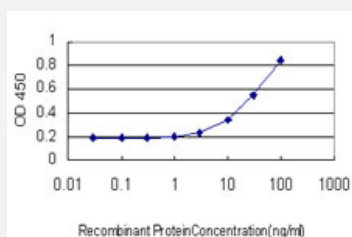
Western Blot (Cell lysate)

DLD monoclonal antibody (M02), clone 3C1 Western Blot analysis of DLD expression in HeLa (Cat # L013V1).



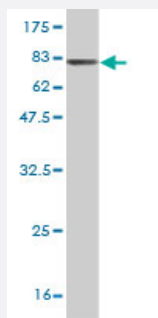
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



Sandwich ELISA (Recombinant protein)

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



Western Blot detection against Immunogen (81.73 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant DLD.
Immunogen	DLD (AAH18696, 1 a.a. ~ 509 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MQWSRVYCSLAKRGHFNRIHGLQGLSAVPLRTYADQPIDADVTVIGSGPGGYVAAIKAAQLGF KTVCIKNETLGGTCLNVGCIPSKALLNNSHYHMAHGKDFASRGIE MSEVRLNLDKMMEQKSTA VKALTGGIAHLFKQNKVVHVNGYGKITGKNQVTATKADGGTQVIDTKNLIATGSEVTPFPGITIDEDTI VSSTGALSLKKVPEKMMVIGAGVIGVELGSVWQRLGADVTAVEFLGHVGGVGIDMEISKNFQRILQ KQGFKFKLNTKVTGATKKSDGKIDVSEIAASGGKAEVITCDVLLVCIGRRPFTKNLGLEELGIELDP RGRIPVNTRFQTKIPNIYAIGDVVAGPMLAHKAEDGEIICVEGMAGGAVHIDYNCVPSVIYTHPEVAW VGKSEEQLKEEGIEYKVGKFPFAANSRAKTNADTDGMVKILGQKSTDRVLGAHILGPGAGEMVNE AALALEYGASCEDIARVCHAHTLSEAFREANLAASF GKSNF
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (95); Rat (95)
Isotype	IgG3 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (81.73 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

DLD monoclonal antibody (M02), clone 3C1 Western Blot analysis of DLD expression in Hela (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

Gene Info — DLD

Entrez GeneID [1738](#)

GeneBank Accession# [BC018696](#)

Protein Accession# [AAH18696](#)

Gene Name DLD

Gene Alias DLDH, E3, GCSL, LAD, PHE3

Gene Description dihydrolipoamide dehydrogenase

Omim ID [238331](#) [248600](#) [256000](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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 acid dehydrogenase complex. Mutations in this gene have been identified in patients with E3-deficient maple syrup urine disease and lipoamide dehydrogenase deficiency. [provided by RefSeq]

Other Designations

E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex|diaphorase|dihydrolipoyl dehydrogenase|glycine cleavage system protein L|lipoamide dehydrogenase|lipoamide reductase|lipoyl dehydrogenase

Publication Reference

- [Quantitative Analysis of HIV-1 Infected CD4+ Cell Proteome: Dysregulated Cell Cycle Progression and Nuclear Transport Coincide with Robust Virus Production.](#)

Chan EY, Qian WJ, Diamond DL, Liu T, Gritsenko MA, Monroe ME, Camp DG 2nd, Smith RD, Katze MG.

Journal of Virology 2007 May; 81(14):7571.

Application: WB, Human, Human CEMx174 cells

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Glycine](#)
- [Glycolysis / Gluconeogenesis](#)
- [Metabolic pathways](#)
- [Pyruvate metabolism](#)
- [Valine](#)

Disease

- [Alzheimer disease](#)