D2HGDH Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	D2HGDH, Polyclonal Antibody
Full Product Name	D2HGDH Antibody, HRP conjugated
Product Gene Name	anti-D2HGDH antibody
Product Synonym Names	D-2-hydroxyglutarate dehydrogenase; mitochondrial (EC:1.1.99.-); D2HGDH; D2HGD
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	>95%, Protein G Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: D2HGDH (MBS1496271) HRP Conjugated Antibody: D2HGDH (MBS1493416)
Molecular Weight	34,173 Da
OMIM	600721
3D Structure	ModBase 3D Structure for Q8N465
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	HRP
Immunogen	Recombinant human D-2-hydroxyglutarate dehydrogenase, mitochondrial protein
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-241380
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-D2HGDH antibody	ELISA (EIA)
Related Product Information for anti-D2HGDH antibody	MBS1493416 is an antibody targeting D2HGDH. Also known as D2HGDH Antibody, HRP conjugated. Reactive in Human. Host: Rabbit. Catalyzes the oxidation of D-2-hydroxyglutarate to alpha-ketoglutarate.
Other Notes	Small volumes of anti-D2HGDH antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for D2HGDH. It may not necessarily be applicable to this product.

NCBI GI #	564730541
NCBI GeneID	728294
NCBI Accession #	NP_001274178.1

UniProt Primary Accession #	Q8N465
UniProt Secondary Accession #	Q6IQ24; Q8N5Q8; B4E3L6; E7ENP2
UniProt Related Accession #	Q8N465
GenBank Nucleotide #	NM_001287249.1
NCBI Official Full Name	D-2-hydroxyglutarate dehydrogenase, mitochondrial isoform 2
NCBI Official Synonym Full Names	D-2-hydroxyglutarate dehydrogenase
NCBI Official Symbol	D2HGDH
NCBI Official Synonym Symbols	D2HGD
UniProt Protein Name	D-2-hydroxyglutarate dehydrogenase, mitochondrial
Protein Family	D-2-hydroxyglutarate dehydrogenase
UniProt Gene Name	D2HGDH
UniProt Synonym Gene Names	D2HGD
UniProt Entry Name	D2HDH_HUMAN
NCBI Protein Information	D-2-hydroxyglutarate dehydrogenase, mitochondrial
NCBI Summary for D2HGDH	This gene encodes D-2hydroxyglutarate dehydrogenase, a mitochondrial enzyme belonging to the FAD-binding oxidoreductase/transferase type 4 family. This enzyme, which is most active in liver and kidney but also active in heart and brain, converts D-2-hydroxyglutarate to 2-ketoglutarate. Mutations in this gene are present in D-2-hydroxyglutaric aciduria, a rare recessive neurometabolic disorder causing developmental delay, epilepsy, hypotonia, and dysmorphic features. [provided by RefSeq, Jul 2008]
UniProt Comments for D2HGDH	D2HGDH: an oxidoreductase that act on the CH-OH group of donor with other acceptors. Catalyzes the oxidation of D-2-hydroxyglutarate (2HG) to alpha-ketoglutarate. Belongs to the FAD-binding oxidoreductase/transferase type 4 family. 2 human isoforms produced by alternative splicing. Defects in D2HGDH are the cause of D-2-hydroxyglutaric aciduria (D2HGA), a rare recessive neurometabolic disorder causing developmental delay, epilepsy, hypotonia, and dysmorphic features. Both a mild and a severe phenotype exist. The severe phenotype is homogeneous and is characterized by early infantile-onset epileptic encephalopathy and cardiomyopathy. The mild phenotype has a more variable clinical presentation. Diagnosis is based on the presence of an excess of D-2-hydroxyglutaric acid in the urine. Protein type: EC 1.1.99.-; Mitochondrial; Oxidoreductase Chromosomal Location of Human Ortholog: 2q37.3 Cellular Component: mitochondrial matrix; mitochondrion Molecular Function: (R)-2-hydroxyglutarate dehydrogenase activity; FAD binding Biological Process: 2-oxoglutarate metabolic process; cellular metabolic process; cellular protein metabolic process; response to calcium ion; response to cobalt ion; response to magnesium ion; response to manganese ion; response to zinc ion Disease: D-2-hydroxyglutaric Aciduria 1
Research Articles on D2HGDH	**1.** D2HGDH mutation is not associated with glioblastoma.
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