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L2HGDH Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10255c

Product Information

Application	WB, E
Primary Accession	Q9H9P8
Other Accession	NP_079160.1
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27534
Calculated MW	50316
Antigen Region	132-159

Additional Information

Gene ID	79944
Other Names	L-2-hydroxyglutarate dehydrogenase, mitochondrial, Duranin, L2HGDH, C14orf160
Target/Specificity	This L2HGDH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 132-159 amino acids from the Central region of human L2HGDH.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	L2HGDH Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	L2HGDH (HGNC:20499)
Function	Catalyzes the oxidation of L-2-hydroxyglutarate to 2- oxoglutarate (alpha-ketoglutarate).

Cellular Location	Mitochondrion.
Tissue Location	Widely expressed. Highly expressed in brain, testis and muscle. Expressed to a lower extent in lymphocytes, fibroblasts, keratinocytes, placenta, bladder, small intestine, liver and bone marrow.

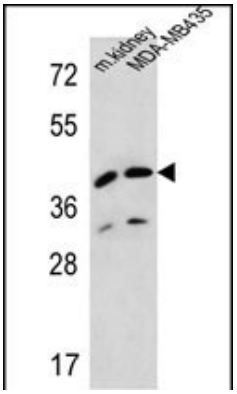
Background

This gene encodes L-2-hydroxyglutarate dehydrogenase, a FAD-dependent enzyme that oxidizes L-2-hydroxyglutarate to alpha-ketoglutarate in a variety of mammalian tissues. Mutations in this gene cause L-2-hydroxyglutaric aciduria, a rare autosomal recessive neurometabolic disorder resulting in moderate to severe mental retardation.

References

Short, A.D., et al. Vet. Rec. 167(12):455-457(2010)
Steenweg, M.E., et al. Hum. Mutat. 31(4):380-390(2010)
Kranendijk, M., et al. Hum. Mutat. 31(3):279-283(2010)
Vilarinho, L., et al. J. Hum. Genet. 55(1):55-58(2010)
Haliloglu, G., et al. Neuropediatrics 39(2):119-122(2008)

Images



L2HGDH Antibody (Center) (Cat. #AP10255c) western blot analysis in MDA-MB435 cell line and mouse kidney tissue lysates (35ug/lane).This demonstrates the L2HGDH antibody detected the L2HGDH protein (arrow).

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