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Product datasheet for CF812134

HADHA Mouse Monoclonal Antibody [Clone ID: OTI7B3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI7B3
Applications:	WB
Recommended Dilution:	WB 1:500
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 106-325 of human HADHA (NP_000173) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	83 kDa
Gene Name:	hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit alpha
Database Link:	NP_000173 Entrez Gene 97212 MouseEntrez Gene 170670 RatEntrez Gene 3030 Human P40939

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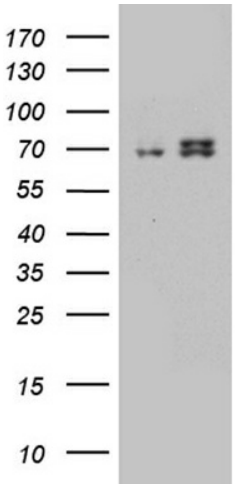
Background: This gene encodes the alpha subunit of the mitochondrial trifunctional protein, which catalyzes the last three steps of mitochondrial beta-oxidation of long chain fatty acids. The mitochondrial membrane-bound heterocomplex is composed of four alpha and four beta subunits, with the alpha subunit catalyzing the 3-hydroxyacyl-CoA dehydrogenase and enoyl-CoA hydratase activities. Mutations in this gene result in trifunctional protein deficiency or LCHAD deficiency. The genes of the alpha and beta subunits of the mitochondrial trifunctional protein are located adjacent to each other in the human genome in a head-to-head orientation. [provided by RefSeq, Jul 2008]

Synonyms: ECHA; GBP; HADH; LCEH; LCHAD; MTPA; TP-ALPHA

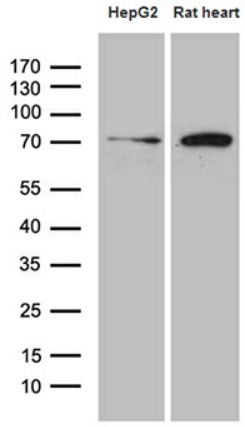
Protein Families: Druggable Genome

Protein Pathways: beta-Alanine metabolism, Biosynthesis of unsaturated fatty acids, Butanoate metabolism, Fatty acid elongation in mitochondria, Fatty acid metabolism, Limonene and pinene degradation, Lysine degradation, Metabolic pathways, Propanoate metabolism, Tryptophan metabolism, Valine, leucine and isoleucine degradation

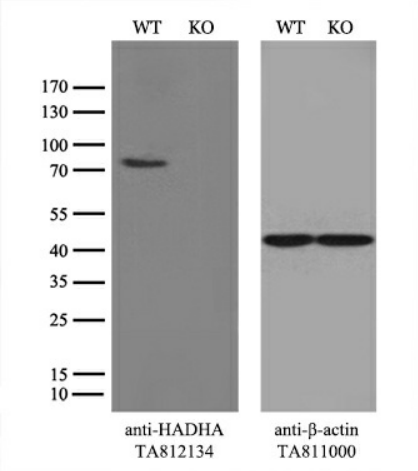
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HADHA (Cat# [RC200466], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HADHA antibody (Cat# [TA812134]). Positive lysates [LY400065] (100ug) and [LC400065] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from HepG2 cell line and rat heart tissue lysate by using anti-HADHA monoclonal antibody (1:500).



Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and HADHA-Knockout 293T cells (KO, Cat# [LC811625]) were separated by SDS-PAGE and immunoblotted with anti-HADHA monoclonal antibody [TA812134], (1:500). Then the blotted membrane was stripped and reprobed with anti-b-actin antibody ([TA811000]) as a loading control.