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

HADHSC Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant HADHSC.
Catalog # AT2309a

Product Information

Application	WB, IHC, IF, IP, E
Primary Accession	Q16836
Other Accession	NM_005327
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	4B5
Calculated MW	34294

Additional Information

Gene ID	3033
Other Names	Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial, HCDH, Medium and short-chain L-3-hydroxyacyl-coenzyme A dehydrogenase, Short-chain 3-hydroxyacyl-CoA dehydrogenase, HADH, HAD, HADHSC, SCHAD
Target/Specificity	HADHSC (NP_005318, 205 a.a. ~ 314 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 IP~~N/A 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	HADHSC Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

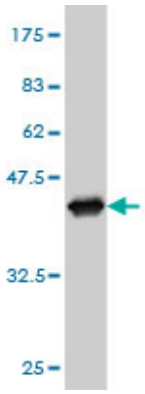
Background

This gene is a member of the 3-hydroxyacyl-CoA dehydrogenase gene family. The encoded protein functions in the mitochondrial matrix to catalyze the oxidation of straight-chain 3-hydroxyacyl-CoAs as part of the beta-oxidation pathway. Its enzymatic activity is highest with medium-chain-length fatty acids. Mutations in this gene cause one form of familial hyperinsulinemic hypoglycemia. The human genome contains a related pseudogene of this gene on chromosome 15.

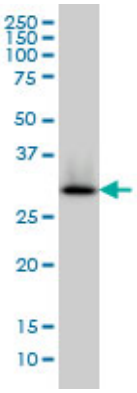
References

1.Changes in peak fat oxidation in response to different doses of endurance training.Rosenkilde M, Reichkendler MH, Auerbach P, Bonne TC, Sjodin A, Ploug T, Stallknecht BMScand J Med Sci Sports. 2013 Dec 18. doi: 10.1111/sms.12151.2.BCAT1 promotes cell proliferation through amino acid catabolism in gliomas carrying wild-type IDH1.Tonjes M, Barbus S, Park YJ, Wang W, Schlotter M, Lindroth AM, Pleier SV, Bai AH, Karra D, Piro RM, Felsberg J, Addington A, Lemke D, Weibrecht I, Hovestadt V, Rolli CG, Campos B, Turcan S, Sturm D, Witt H, Chan TA, Herold-Mende C, Kemkemer R, Konig R, Schmidt K, Hull WE, Pfister SM, Jugold M, Hutson SM, Plass C, Okun JG, Reifenberger G, Lichter P, Radlwimmer BNat Med. 2013 Jul;19(7):901-8. doi: 10.1038/nm.3217. Epub 2013 Jun 23.

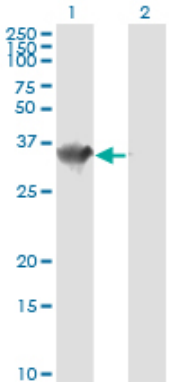
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .

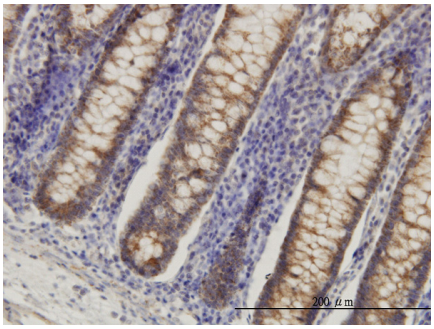


HADHSC monoclonal antibody (M01), clone 4B5 Western Blot analysis of HADHSC expression in HepG2 ((Cat # AT2309a)

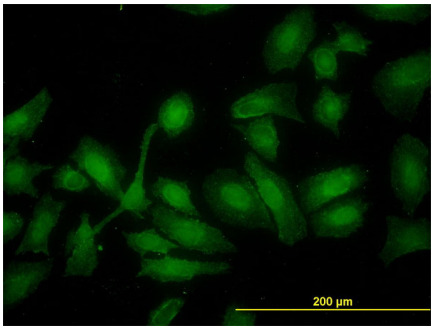


Western Blot analysis of HADH expression in transfected 293T cell line by HADHSC monoclonal antibody (M01), clone 4B5.

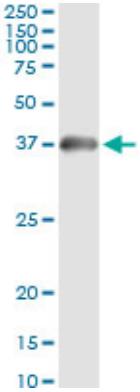
Lane 1: HADH transfected lysate(34.3 KDa).
Lane 2: Non-transfected lysate.



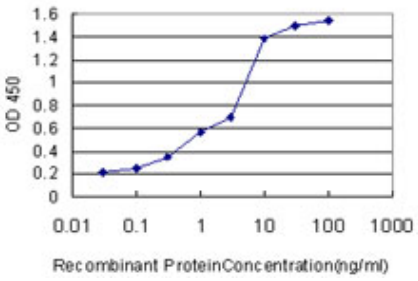
Immunoperoxidase of monoclonal antibody to HADHSC on formalin-fixed paraffin-embedded human colon. [antibody concentration 3 ug/ml]



Immunofluorescence of monoclonal antibody to HADHSC on HeLa cell. [antibody concentration 10 ug/ml]



Immunoprecipitation of HADH transfected lysate using anti-HADH monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with HADH MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged HADHSC is approximately 0.03ng/ml as a capture antibody.