

# HADHSC Antibody (monoclonal) (M01)

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

## **Product Information**

WB, IHC, IF, IP, E
<u>Q16836</u>
<u>NM_005327</u>
Human
mouse
monoclonal
IgG2b Kappa
4B5
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. $\sim$ 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

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 (<u>U0007</u>), and immunoblotted with HADH MaxPab rabbit polyclonal antibody.



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

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