

HADHSC Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant HADHSC.****Catalog # AT2309a****Specification**

HADHSC Antibody (monoclonal) (M01) - Product Information

Application	IF, IP, WB, IHC, E
Primary Accession	Q16836
Other Accession	NM_005327
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	34294

HADHSC Antibody (monoclonal) (M01) - 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

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.

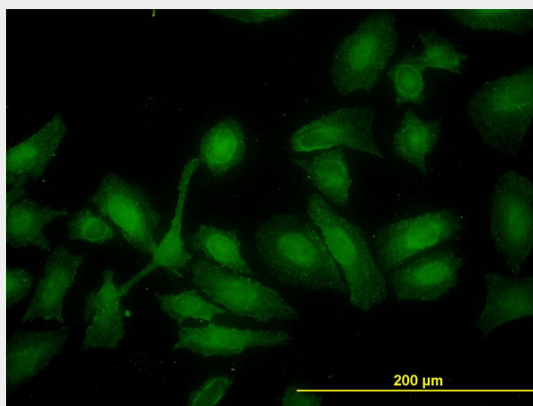
HADHSC Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

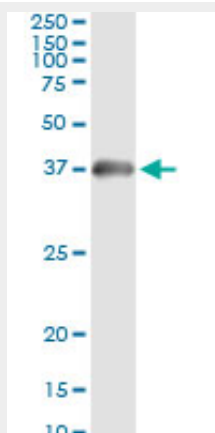
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

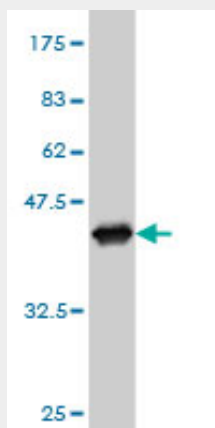
HADHSC Antibody (monoclonal) (M01) - Images



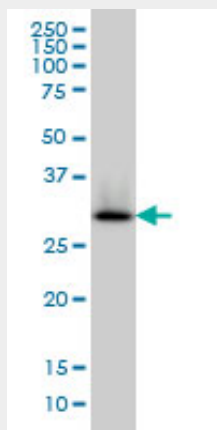
Immunofluorescence of monoclonal antibody to HADHSC on HeLa cell. [antibody concentration 10 ug/ml]



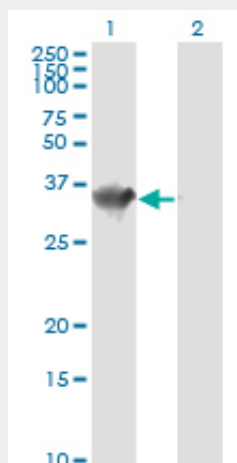
Immunoprecipitation of HADH transfected lysate using anti-HADH monoclonal antibody and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with HADH MaxPab rabbit polyclonal antibody.



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



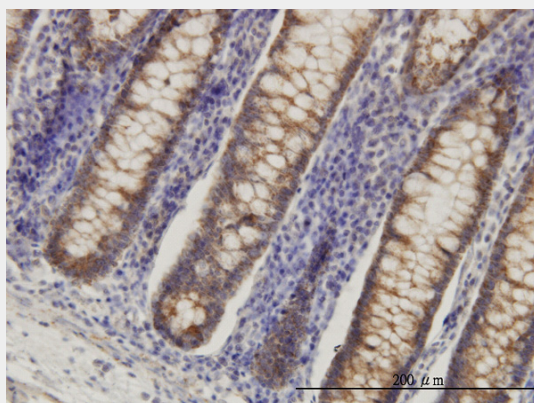
HADHSC monoclonal antibody (M01), clone 4B5 Western Blot analysis of HADHSC expression in HepG2 ((Cat # AT2309a)



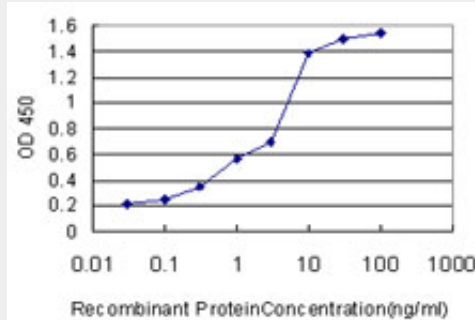
Western Blot analysis of HADH expression in transfected 293T cell line by HADHSC monoclonal antibody (M01), clone 4B5.

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]



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

HADHSC Antibody (monoclonal) (M01) - 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.

HADHSC Antibody (monoclonal) (M01) - References

1.Changes in peak fat oxidation in response to different doses of endurance training.Rosenkilde M, Reichkender 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, Kemkemmer 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.