

SCHAD / HADHSC Antibody (clone 4B5)
Mouse Monoclonal Antibody
Catalog # ALS14380**Specification**

SCHAD / HADHSC Antibody (clone 4B5) - Product Information

Application	WB, IHC-P, IF, E, IP
Primary Accession	Q16836
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	34kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200 E~~N/A IP~~N/A

SCHAD / HADHSC Antibody (clone 4B5) - Additional Information**Gene ID** 3033**Other Names**

Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial, HCDH, 1.1.1.35, Medium and short-chain L-3-hydroxyacyl-coenzyme A dehydrogenase, Short-chain 3-hydroxyacyl-CoA dehydrogenase, HADH, HAD, HADHSC, SCHAD

Target/Specificity

Human HADH

Reconstitution & Storage

Aliquot and store at -20°C or -80°C. Avoid freeze-thaw cycles.

Precautions

SCHAD / HADHSC Antibody (clone 4B5) is for research use only and not for use in diagnostic or therapeutic procedures.

SCHAD / HADHSC Antibody (clone 4B5) - Protein Information**Name** HADH**Function**

Mitochondrial fatty acid beta-oxidation enzyme that catalyzes the third step of the beta-oxidation cycle for medium and short-chain 3-hydroxy fatty acyl-CoAs (C4 to C10) (PubMed:10231530, PubMed:11489939, PubMed:16725361). Plays a role in the control of insulin secretion by inhibiting the activation of glutamate dehydrogenase 1

(GLUD1), an enzyme that has an important role in regulating amino acid-induced insulin secretion (By similarity). Plays a role in the maintenance of normal spermatogenesis through the reduction of fatty acid accumulation in the testes (By similarity).

Cellular Location

Mitochondrion matrix

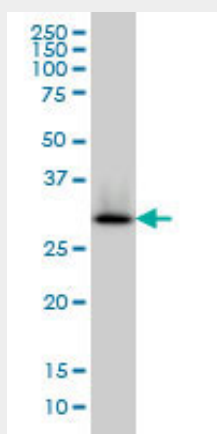
Tissue Location

Expressed in liver, kidney, pancreas, heart and skeletal muscle.

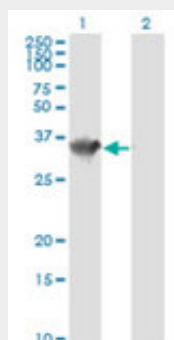
SCHAD / HADHSC Antibody (clone 4B5) - Protocols

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

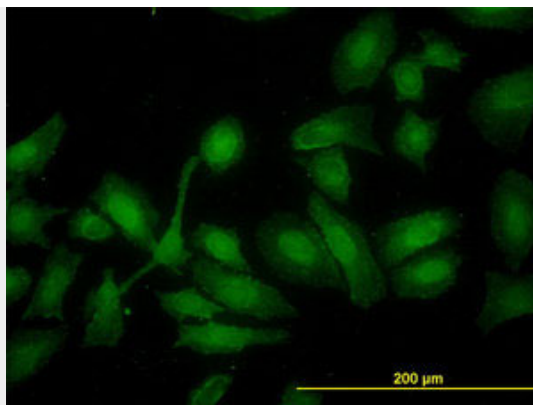
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SCHAD / HADHSC Antibody (clone 4B5) - Images

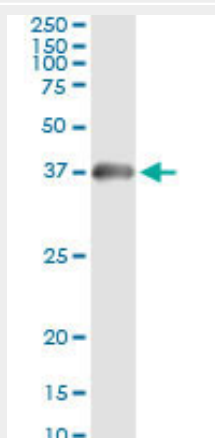
Western blot of HADH expression in HepG2 cell lysate.



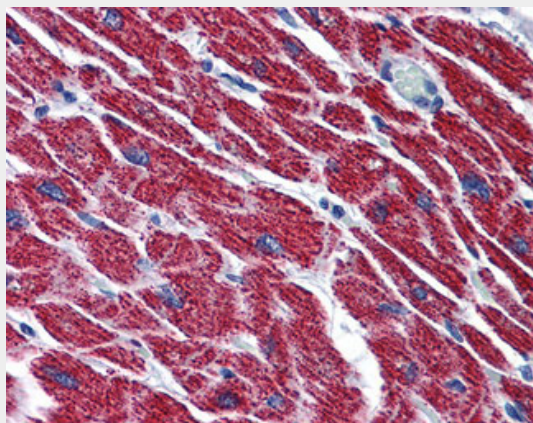
Western blot of HADH expression in transfected 293T cell line by HADH monoclonal antibody.



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...



Anti-HADH / HADHSC antibody IHC of human heart.

SCHAD / HADHSC Antibody (clone 4B5) - Background

Plays an essential role in the mitochondrial beta- oxidation of short chain fatty acids. Exerts it highest activity toward 3-hydroxybutyryl-CoA.

SCHAD / HADHSC Antibody (clone 4B5) - References

Vredendaal P.J.C.M.,et al.Biochem. Biophys. Res. Commun. 223:718-723(1996).
Shi Y.,et al.Submitted (NOV-1996) to the EMBL/GenBank/DDBJ databases.

O'Brien L.K.,et al.Submitted (SEP-1998) to the EMBL/GenBank/DDBJ databases.
Hillier L.W.,et al.Nature 434:724-731(2005).
Choudhary C.,et al.Science 325:834-840(2009).