Product Name: KD-Validated HSD17B10 Mouse Monoclonal Antibody
Catalog #: KVAb00051
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 26.9kDa

Antigen Information

Gene Name	HSD17B10
Alternative Names	HSD17B10; Hydroxysteroid 17-Beta Dehydrogenase 10; SDR5C1; MRPP2; ERAB; MHBD; 17b-HSD10; HADH2; ABAD; CAMR; Endoplasmic Reticulum-Associated Amyloid Beta-Peptide-Binding Protein; 3-Hydroxy-2-Methylbutyryl-CoA Dehydrogenase; 3-Hydroxyacyl-CoA Dehydrogenase Type-2; Mitochondrial Ribonuclease P Protein 2; AB-Binding Alcohol Dehydrogenase; Mitochondrial RNase P Subunit 2; MRXS10; SCHAD; Hydroxyacyl-Coenzyme A Dehydrogenase, Type II, Hydroxyacyl-Coenzyme A Dehydrogenase, Type II; Short Chain Dehydrogenase/Reductase Family 5C, Member 1; 3-Alpha-(17-Beta)-Hydroxysteroid Dehydrogenase (NAD(+)); Short Chain Dehydrogenase/Reductase Family 5C Member 1; Short Chain L-3-Hydroxyacyl-CoA Dehydrogenase Type 2; Amyloid-Beta Peptide Binding Alcohol Dehydrogenase; Short Chain Type Dehydrogenase/Reductase XH98G2;

	Short-Chain Type Dehydrogenase/Reductase XH98G2; 3alpha(Or 20beta)-Hydroxysteroid Dehydrogenase; Type 10 17beta-Hydroxysteroid Dehydrogenase; 2-Methyl-3-Hydroxybutyryl-CoA Dehydrogenase; Mental Retardation, X-Linked, Syndromic 10; Hydroxysteroid (17-Beta) Dehydrogenase 10; 3-Hydroxyacyl-CoA Dehydrogenase Type II; 7-Alpha-Hydroxysteroid Dehydrogenase; 17-Beta-Estradiol 17-Dehydrogenase; Mitochondrial RNase P Protein 2; Type 10 17b-HSD; Type II HADH; EC 1.1.1.239; EC 1.1.1.178; EC 1.1.1.159; EC 1.1.1.35; EC 1.1.1.62; EC 1.1.1.53; DUPXp11.22; HSD10MD; XH98G2; MRX17; MRX31; HCD2
Gene ID	3028.0
SwissProt ID	Q99714
Immunogen	Recombinant protein of human HSD17B10

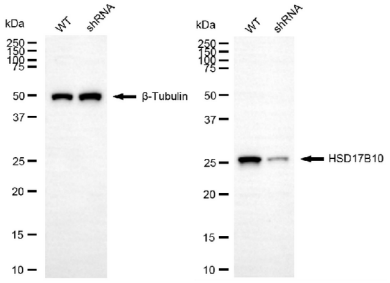
Background

This gene encodes 3-hydroxyacyl-CoA dehydrogenase type II, a member of the short-chain dehydrogenase/reductase superfamily. The gene product is a mitochondrial protein that catalyzes the oxidation of a wide variety of fatty acids and steroids, and is a subunit of mitochondrial ribonuclease P, which is involved in tRNA maturation. The protein has been implicated in the development of Alzheimer disease, and mutations in the gene are the cause of 17beta-hydroxysteroid dehydrogenase type 10 (HSD10) deficiency. Several alternatively spliced transcript variants have been identified, but the full-length nature of only two transcript variants has been determined. [provided by RefSeq, Aug 2014]

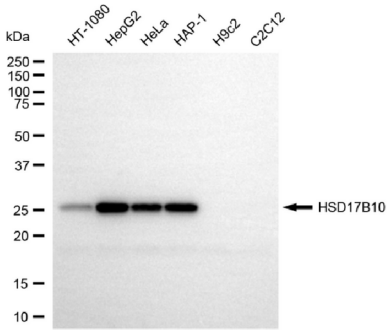
Research Area

Neuroscience,Tags & Cell Markers,Metabolism

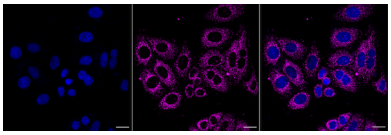
Image Data



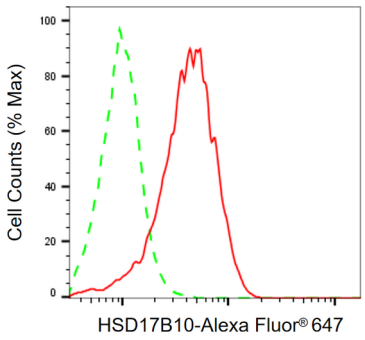
Western blotting analysis using HSD17B10 antibody (KVAb00051). HSD17B10 expression in wild-type (WT) and HSD17B10 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with HSD17B10 antibody (KVAb00051, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using HSD17B10 antibody (KVAb00051). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with HSD17B10 antibody (KVAb00051, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with HSD17B10 antibody (KVAb00051,1:1,000). Nuclei were stained blue with DAPI; HSD17B10 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of HSD17B10 expression in HepG2 cells using HSD17B10 antibody (KVAb00051, 1:2,000). Green, isotype control; red, HSD17B10.