

Rabbit HSD17B10 Polyclonal Antibody | anti-HSD17B10 antibody

HSD17B10 Antibody

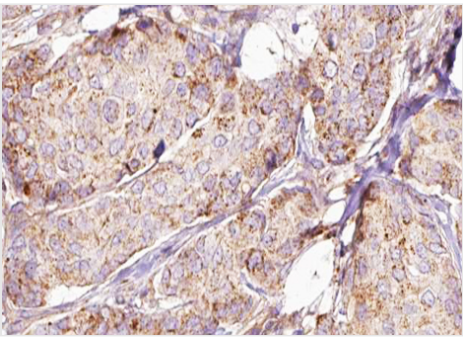
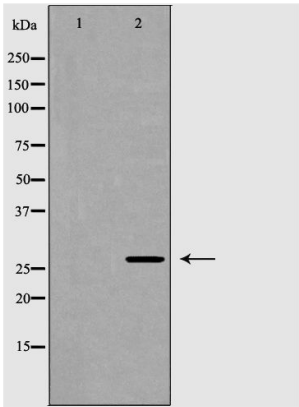
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327048	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

HSD17B10; Polyclonal Antibody; HSD17B10 Antibody; 17 beta hydroxysteroid dehydrogenase 10; 17 beta hydroxysteroid dehydrogenase type 10; 17-beta-HSD 10; 17-beta-hydroxysteroid dehydrogenase 10; 17b HSD10; 3 hydroxy 2 methylbutyryl CoA dehydrogenase; 3 hydroxyacyl CoA dehydrogenase type 2; 3 hydroxyacyl CoA dehydrogenase type II; 3-hydroxy-2-methylbutyryl-CoA dehydrogenase; 3-hydroxyacyl-CoA dehydrogenase type II; 3-hydroxyacyl-CoA dehydrogenase type-2; AB binding alcohol dehydrogenase; ABAD; Ads9; Amyloid beta binding polypeptide; Amyloid beta peptide binding alcohol dehydrogenase; Amyloid beta peptide binding protein; CAMR; DUPXp11.22; Endoplasmic Reticulum Amyloid Binding Protein; Endoplasmic reticulum associated amyloid beta peptide binding protein; Endoplasmic reticulum-associated amyloid beta-peptide-binding protein; ER associated amyloid beta-binding protein; ERAB; HADH 2; HADH2; HCD 2; HCD2; HCD2_HUMAN; Hsd17b10; Hydroxyacyl CoA Dehydrogenase type II; Hydroxyacyl Coenzyme A dehydrogenase type II; Hydroxysteroid (17 beta) dehydrogenase 10; Mental retardation X linked syndromic 11; MHBD; Mitochondrial L3 Hydroxyacyl CoA Dehydrogenase; Mitochondrial ribonuclease P protein 2; Mitochondrial RNase P protein 2; MRPP2; MRX17; SCHAD; SDR5C1; Short chain dehydrogenase/reductase family 5C member 1; Short chain L 3 hydroxyacyl CoA dehydrogenase type 2; Short chain type dehydrogenase/reductase XH98G2; Short-chain type dehydrogenase/reductase XH98G2; Type 10 17b HSD; Type 10 17beta hydroxysteroid dehydrogenase; Type II HADH; XH98G2; anti-HSD17B10 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	HSD17B10 antibody detects endogenous levels of total HSD17B10
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	252
Applicable Applications for anti-HSD17B10 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human HSD17B10
Subcellular Location	Mitochondrion.
Tissue Specificity	Ubiquitously expressed in normal tissues but is overexpressed in neurons affected in AD.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA327048 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of Hela whole cell lysates, using HSD17B10 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-HSD17B10 antibody

Description: 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, alcohols, and steroids. The protein has been implicated in the development of Alzheimer's disease, and mutations in the gene are the cause of 2-methyl-3-hydroxybutyryl-CoA dehydrogenase deficiency (MHBD). Several alternatively spliced transcript variants have been identified, but the full-length nature of only two transcript variants has been determined.

Function: Mitochondrial dehydrogenase that catalyzes the beta-oxidation at position 17 of androgens and estrogens and has 3-alpha-hydroxysteroid dehydrogenase activity with androsterone (PubMed:9553139, PubMed:23042678, PubMed:12917011, PubMed:18996107, PubMed:25925575, PubMed:28888424). Catalyzes the third step in the beta-oxidation of fatty acids (PubMed:9553139, PubMed:12917011, PubMed:18996107, PubMed:25925575, PubMed:28888424). Carries out oxidative conversions of 7-alpha-OH and 7-beta-OH bile acids (PubMed:12917011). Also exhibits 20-beta-OH and 21-OH dehydrogenase activities with C21 steroids (PubMed:12917011). By interacting with intracellular amyloid-beta, it may contribute to the neuronal dysfunction associated with Alzheimer disease (AD) (PubMed:9338779). Essential for structural and functional integrity of mitochondria (PubMed:20077426).

Subunit Structure: Homotetramer (PubMed:15342248, PubMed:20077426, PubMed:25925575). Component of mitochondrial ribonuclease P, a complex composed of TRMT10C/MRPP1, HSD17B10/MRPP2 and MRPP31 (PubMed:18984158, PubMed:25925575, PubMed:26950678, PubMed:28888424). Interacts with TRMT10C/MRPP1; forming the MRPP1-MRPP2 subcomplex of the mitochondrial ribonuclease P complex (PubMed:23042678, PubMed:29040705).

Similarity: Belongs to the short-chain dehydrogenases/reductases (SDR) family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	83715985
NCBI GeneID	3028
NCBI Accession #	NP_001032900.1
NCBI GenBank Nucleotide #	NM_001037811.2
UniProt Accession #	Q99714; Q5H927; Q6IBS9; Q8TCV9; Q96HD5
Molecular Weight	Observed: 27 kDa Predicted: 27 kDa
NCBI Official Full Name	3-hydroxyacyl-CoA dehydrogenase type-2 isoform 2
NCBI Official Synonym Full Names	hydroxysteroid 17-beta dehydrogenase 10
NCBI Official Symbol	HSD17B10

NCBI Official Synonym Symbols	ABAD; CAMR; ERAB; HCD2; MHBD; HADH2; MRPP2; MRX17; MRX31; SCHAD; MRXS10; SDR5C1; HSD10MD; 17b-HSD10; DUPXp11.22
NCBI Protein Information	3-hydroxyacyl-CoA dehydrogenase type-2
UniProt Protein Name	3-hydroxyacyl-CoA dehydrogenase type-2
UniProt Gene Name	HSD17B10
UniProt Synonym Gene Names	ERAB; HADH2; MRPP2; SCHAD; SDR5C1; XH98G2; MHBD1 PublicationManual assertion based on opinion iniRef.24; Mitochondrial RNase P protein 2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hsd17b10-antibody-immunohistochemistry-western-blot-elisa/327048>