

Datasheet for ABIN7142296
anti-HSD17B1 antibody (AA 2-261)

3 Images

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Overview

Quantity:	100 µg
Target:	HSD17B1
Binding Specificity:	AA 2-261
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HSD17B1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant Human 3-hydroxyacyl-CoA dehydrogenase type-2 protein (2-261AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	HSD17B1
Alternative Name:	HSD17B1 (HSD17B1 Products)
Background:	Background: Functions in mitochondrial tRNA maturation. Part of mitochondrial ribonuclease P, an enzyme composed of MRPP1/TRMT10C, MRPP2/HSD17B10 and MRPP3/KIAA0391, which

Target Details

cleaves tRNA molecules in their 5'-ends. Catalyzes the beta-oxidation at position 17 of androgens and estrogens and has 3-alpha-hydroxysteroid dehydrogenase activity with androsterone. Catalyzes the third step in the beta-oxidation of fatty acids. Carries out oxidative conversions of 7-alpha-OH and 7-beta-OH bile acids. Also exhibits 20-beta-OH and 21-OH dehydrogenase activities with C21 steroids. By interacting with intracellular amyloid-beta, it may contribute to the neuronal dysfunction associated with Alzheimer disease (AD).

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

UniProt: [Q99714](#)

Pathways: [Metabolism of Steroid Hormones and Vitamin D](#), [Steroid Hormone Biosynthesis](#)

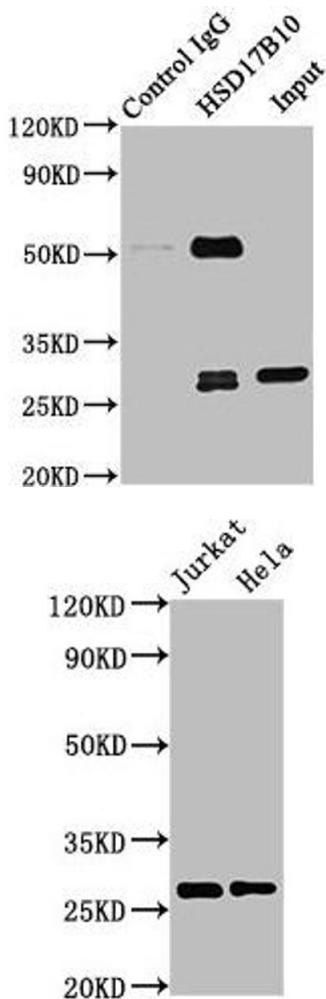
Application Details

Application Notes: Recommended dilution: WB:1:1000-1:5000, IF:1:50-1:200, IP:1:200-1:2000,

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images

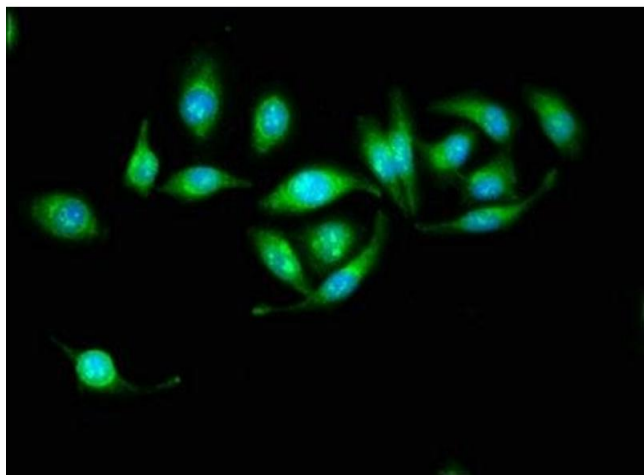


Western Blotting

Image 1. Immunoprecipitating HSD17B10 in 293T whole cell lysate Lane 1: Rabbit control IgG instead of ABIN7142296 in 293T whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000) Lane 2: ABIN7142296 (8 μ g) + 293T whole cell lysate (500 μ g) Lane 3: 293T whole cell lysate (10 μ g)

Western Blotting

Image 2. Western Blot Positive WB detected in: Jurkat whole cell lysate, Hela whole cell lysate All lanes: HSD17B10 antibody at 3 μ g/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 27, 26 kDa Observed band size: 27 kDa



Immunofluorescence

Image 3. Immunofluorescence staining of A549 cells with ABIN7142296 at 1:133, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).