BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-HSD17B10 Antibody (Center)

Catalog Number: M03844-1

About HSD17B10

Functions in mitochondrial tRNA maturation. Part of mitochondrial ribonuclease P, an enzyme composed of MRPP1/TRMT10C, MRPP2/HSD17B10 and MRPP3/KIAA0391, which 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).

Overview

Product Name	Anti-HSD17B10 Antibody (Center)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-HSD17B10 Antibody (Center) (Catalog # M03844-1). Tested in WB, Flow Cytometry, IHC-P, IF application(s). This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q99714

Technical Details

Immunogen	This HSD17B10 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 140-172 amino acids from the Central region of human HSD17B10.
Predicted Reactive Species	Bovine
Isotype	Rabbit IgG
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

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	Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: IF: 1:25 WB: 1:2000 IHC-P: 1:25 FC: 1:25

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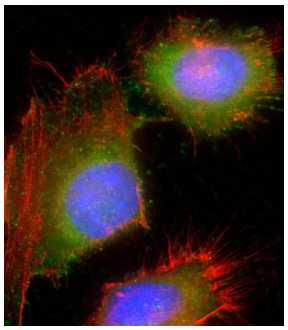
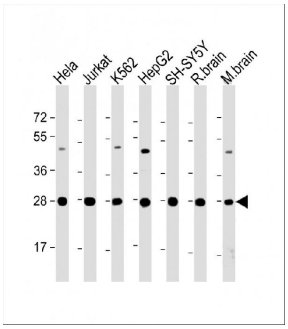
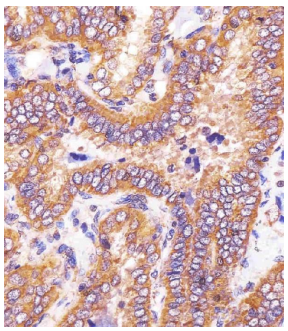
Anti-HSD17B10 Antibody (Center) (M03844-1) Images



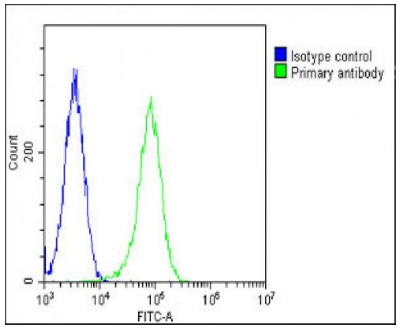
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervical epithelial adenocarcinoma cell line) cells labeling HSD17B10 with M03844-1 at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-rabbit IgG secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm and nucleus staining on HeLa cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin at 1/100 dilution (red). The nuclear counter stain is DAPI (blue).



All lanes : Anti-HSD17B10 Antibody (Center) at 1:2000 dilution
Lane 1: Hela whole cell lysate
Lane 2: Jurkat whole cell lysate
Lane 3: K562 whole cell lysate
Lane 4: HepG2 whole cell lysate
Lane 5: SH-SY5Y whole cell lysate
Lane 6: rat brain lysate
Lane 7: mouse brain lysate
Lysates/proteins at 20 µg per lane.
Secondary
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 27 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



M03844-1 staining HSD17B10 in human thyroid carcinoma sections by Immunohistochemistry (IHC-P -paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing Hela cells stained with M03844-1 (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (M03844-1, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1g/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

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Submit a product review to Biocompare.com

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