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).

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## 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

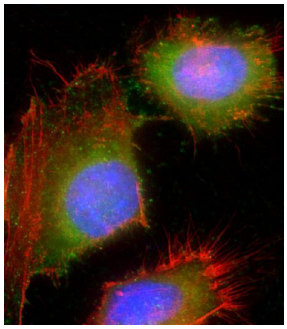
| | |
|---|---|
| Immunogen | This HSD17B10 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 140-172 amino acids from the Central region of human HSD17B10. |
| Predicted Reactive Species | Bovine |

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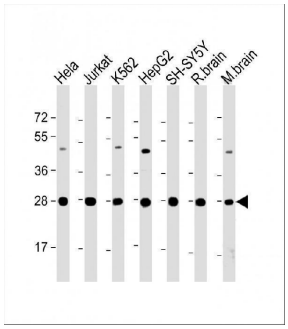
| | |
|---|---|
| Isotype | Rabbit IgG |
| Purification | This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Suggested Dilutions | IF: 1:25<br>WB: 1:2000<br>IHC-P: 1:25<br>FC: 1:25 |

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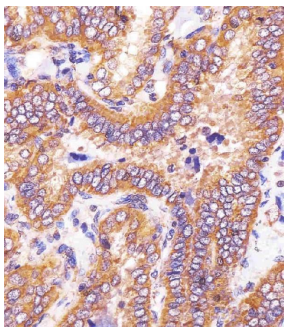
# Anti-HSD17B10 Antibody (Center) (M03844-1) Images



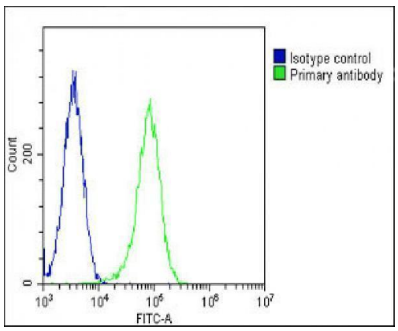
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervical epithelial adenocarcinoma cell line) cells labeling HSD17B10 with M03844-1 at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-rabbit IgG secondary antibody at 1/200 dilution (green). 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 dilutionLane 1: Hela whole cell lysateLane 2: Jurkat whole cell lysateLane 3: K562 whole cell lysateLane 4: HepG2 whole cell lysateLane 5: SH-SY5Y whole cell lysateLane 6: rat brain lysateLane 7: mouse brain lysateLysates/proteins at 20 µg per lane. SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 27 kDaBlocking/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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