

Datasheet for ABIN6243231  
**anti-HSD17B10 antibody (AA 14-48)**[Go to Product page](#)

## 3 Images

## Overview

Quantity:	200 µL
Target:	HSD17B10
Binding Specificity:	AA 14-48
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HSD17B10 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS)

## Product Details

Immunogen:	This HSD17B10 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 14-48 amino acids from human HSD17B10.
Clone:	RB56756
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	HSD17B10
Alternative Name:	HSD17B10 ( <a href="#">HSD17B10 Products</a> )
Background:	Functions in mitochondrial tRNA maturation. Part of mitochondrial ribonuclease P, an enzyme

## Target Details

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).

Molecular Weight: 26923

UniProt: [Q99714](#)

## Application Details

Application Notes: IF: 1:25. WB: 1:8000. FC: 1:25

Restrictions: For Research Use only

## Handling

Format: Liquid

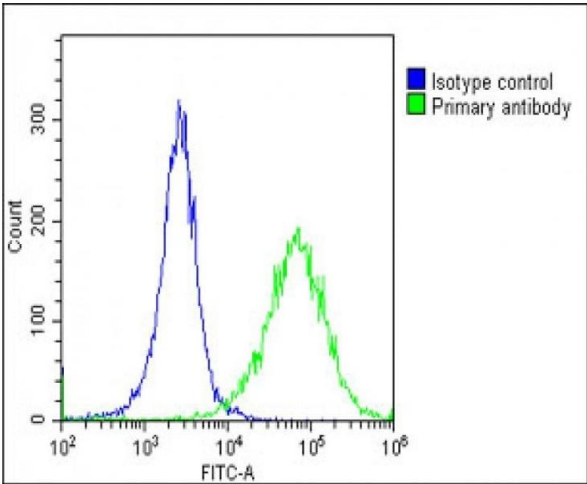
Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

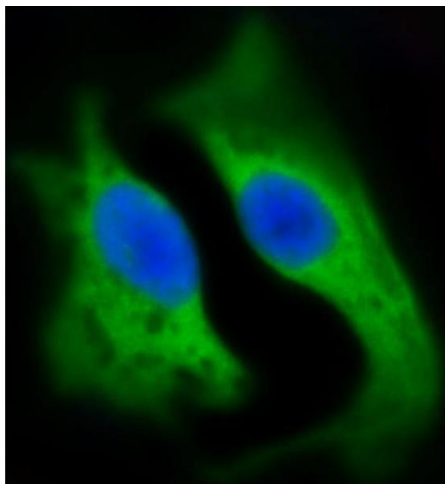
Storage: 4 °C, -20 °C

Expiry Date: 6 months



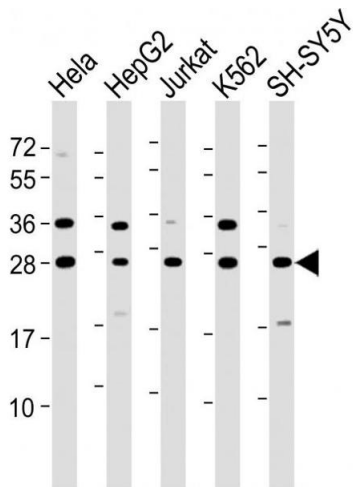
### Flow Cytometry

**Image 1.** Overlay histogram showing HeLa cells stained with (ABIN6243231 and ABIN6578796)(green line). The cells were fixed with 2 % paraformaldehyde (10 min) and then permeabilized with 90 % methanol for 10 min. The cells were then incubated in 2 % bovine serum albumin to block non-specific protein-protein interactions followed by the antibody ((ABIN6243231 and ABIN6578796), 1:25 dilution) for 60 min at 37 °C. The secondary antibody used was Goat Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OE188374) at 1/200 dilution for 40 min at 37 °C. Isotype control antibody (blue line) was rabbit IgG1 (1  $\mu$ g/ $1 \times 10^6$  cells) used under the same conditions. Acquisition of >10,000 events was performed.



### Immunofluorescence

**Image 2.** Immunofluorescent analysis of 4 % paraformaldehyde-fixed, 0.1 % Triton X-100 permeabilized HeLa cells labeling HSD17B10 with (ABIN6243231 and ABIN6578796) 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 Weak Nucleus staining on HeLa cell line. The nuclear counterstain is DAPI (blue).



### Western Blotting

**Image 3.** All lanes : Anti-HSD17B10 Antibody (N-Term) at 1:8000 dilution Lane 1: HeLa whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: Jurkat whole cell lysate Lane 4: K562 whole cell lysate Lane 5: SH-SY5Y whole cell lysate Lysates/proteins at 20  $\mu$ g 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.