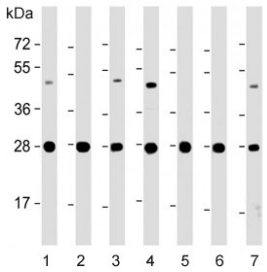
HSD17B10 Antibody / ERAB (F54513)

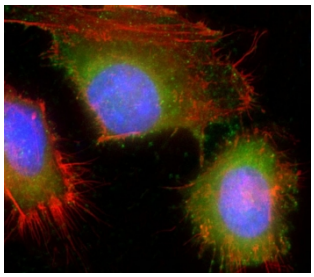
Catalog No.	Formulation	Size
F54513-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F54513-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

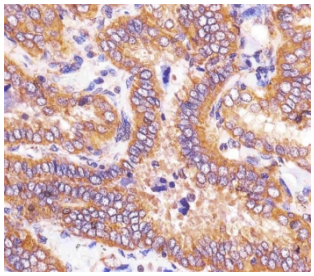
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	Q99714
Applications	Western blot: 1:500-1:2000 Flow cytometry: 1:25 (1x10e6 cells) Immunohistochemistry (FFPE): 1:25 Immunofluorescence: 1:25
Limitations	This HSD17B10 antibody is available for research use only.



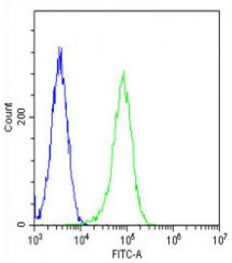
Western blot testing of human 1) HeLa, 2) Jurkat, 3) K562, 4) HepG2, 5) SH-SY5Y, 6) rat brain and 7) mouse brain lysate with HSD17B10 antibody. Predicted molecular weight ~27 kDa.



Immunofluorescent staining of fixed and permeabilized human HeLa cells with HSD17B10 antibody (green), DAPI nuclear stain (blue) and anti-Actin (red).



IHC testing of FFPE human thyroid carcinoma tissue with HSD17B10 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Flow cytometry testing of fixed and permeabilized human HeLa cells with HSD17B10 antibody; Blue=isotype control, Green= HSD17B10 antibody.

Description

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).

Application Notes

The stated application concentrations are suggested starting points. Titration of the HSD17B10 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Recombinant human protein was used as the immunogen for the HSD17B10 antibody.

Storage

Aliquot the HSD17B10 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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