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HSD17B6 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58477

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	O14756
Reactivity	Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35966
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HSD17B6
Epitope Specificity	61-160/317
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Microsome membrane; Peripheral membrane protein; Lumenal side. Early endosome membrane; Peripheral membrane protein; Lumenal side (Potential).
SIMILARITY	Belongs to the short-chain dehydrogenases/reductases (SDR) family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene has both oxidoreductase and epimerase activities and is involved in androgen catabolism. The oxidoreductase activity can convert 3 alpha-adiol to dihydrotestosterone, while the epimerase activity can convert androsterone to epi-androsterone. Both reactions use NAD+ as the preferred cofactor. This gene is a member of the retinol dehydrogenase family. [provided by RefSeq, Aug 2013]

Additional Information

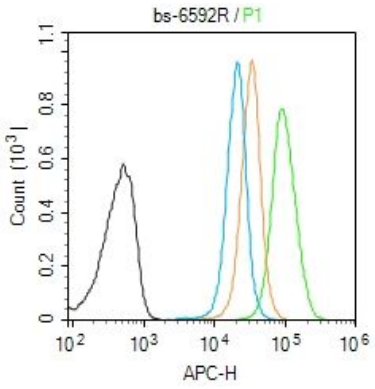
Gene ID	8630
Other Names	17-beta-hydroxysteroid dehydrogenase type 6, 17-beta-HSD 6, 17-beta-HSD6, 1.1.1.105, 1.1.1.209, 1.1.1.239, 3-alpha->beta-hydroxysteroid epimerase, 3-alpha->beta-HSE, Oxidative 3-alpha hydroxysteroid dehydrogenase, Short chain dehydrogenase/reductase family 9C member 6, HSD17B6, RODH, SDR9C6
Target/Specificity	Detected in liver and prostate (at protein level). Detected in adult liver, lung, brain, placenta, prostate, adrenal gland, testis, mammary gland, spleen, spinal cord and uterus. Detected in caudate nucleus, and at lower levels in amygdala, corpus callosum, hippocampus, substantia nigra and thalamus. Detected in fetal lung, liver and brain.

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug /Test,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

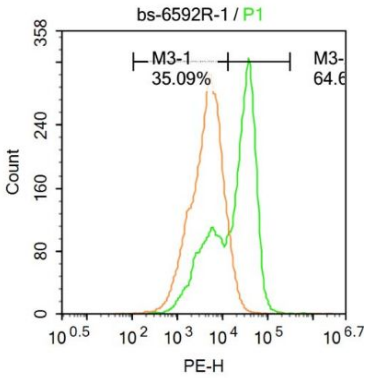
Protein Information

Name	HSD17B6
Synonyms	RODH, SDR9C6
Function	NAD-dependent oxidoreductase with broad substrate specificity that shows both oxidative and reductive activity (in vitro). Has 17- beta-hydroxysteroid dehydrogenase activity towards various steroids (in vitro). Converts 5-alpha-androstan-3-alpha,17-beta-diol to androsterone and estradiol to estrone (in vitro). Has 3-alpha-hydroxysteroid dehydrogenase activity towards androsterone (in vitro). Has retinol dehydrogenase activity towards all-trans-retinol (in vitro). Can convert androsterone to epi-androsterone. Androsterone is first oxidized to 5-alpha-androstane-3,17-dione and then reduced to epi- andosterone. Can act on both C-19 and C-21 3-alpha-hydroxysteroids.
Cellular Location	Microsome membrane; Peripheral membrane protein; Lumenal side. Early endosome membrane; Peripheral membrane protein; Lumenal side
Tissue Location	Detected in liver and prostate (at protein level). Detected in adult liver, lung, brain, placenta, prostate, adrenal gland, testis, mammary gland, spleen, spinal cord and uterus. Detected in caudate nucleus, and at lower levels in amygdala, corpus callosum, hippocampus, substantia nigra and thalamus. Detected in fetal lung, liver and brain.

Images



Blank control (Black line): Molt4 (Black).
Primary Antibody (green line):Rabbit Anti-HSD17B6 antibody (AP58477)
Dilution:3 µg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647
Dilution: 3 µg /test.
Protocol
The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Molt-4 cells were fixed with 4% PFA for 10min at room temperature,permeabilized with 0.1% PBST for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with HSD17B6 Antibody(AP58477)at 1:100 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2%BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).