

HSD17B2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5125C

Product Information

Application	IHC-P, FC, WB, E
Primary Accession	P37059
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26219
Calculated MW	42785
Antigen Region	265-294

Additional Information

Gene ID	3294
Other Names	Estradiol 17-beta-dehydrogenase 2, 17-beta-hydroxysteroid dehydrogenase type 2, 17-beta-HSD 2, 20 alpha-hydroxysteroid dehydrogenase, 20-alpha-HSD, E2DH, Microsomal 17-beta-hydroxysteroid dehydrogenase, Testosterone 17-beta-dehydrogenase, HSD17B2, EDH17B2
Target/Specificity	This HSD17B2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 265-294 amino acids from the Central region of human HSD17B2.
Dilution	IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	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.
Precautions	HSD17B2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HSD17B2 (HGNC:5211)
Synonyms	EDH17B2, SDR9C2

Function	Catalyzes the NAD-dependent oxidation of the highly active 17beta-hydroxysteroids, such as estradiol (E2), testosterone (T), and dihydrotestosterone (DHT), to their less active forms and thus regulates the biological potency of these steroids. Oxidizes estradiol to estrone, testosterone to androstenedione, and dihydrotestosterone to 5alpha-androstan-3,17-dione. Also has 20-alpha-HSD activity.
Cellular Location	Endoplasmic reticulum membrane; Single-pass type II membrane protein
Tissue Location	Expressed in placenta.

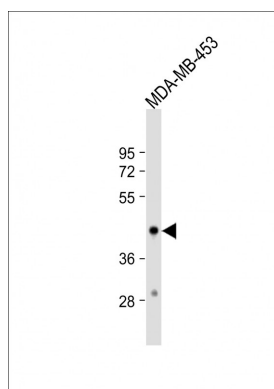
Background

HSD17B2 is capable of catalyzing the interconversion of testosterone and androstenedione, as well as estradiol and estrone. HSD17B2 also has 20-alpha-HSD activity. HSD17B2 uses NADH while EDH17B3 uses NADPH.

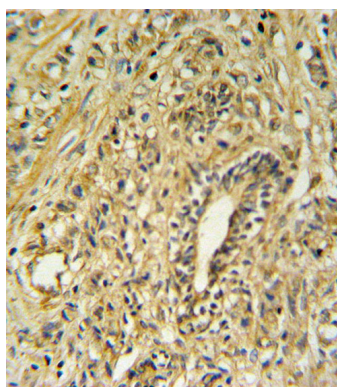
References

Shen, Z., et al. Endocrinology 150(11):4941-4949(2009)
 Bhavani, V., et al. Cancer Biomark 5(4):207-213(2009)
 Olsen, J.V., et al. Cell 127(3):635-648(2006)

Images

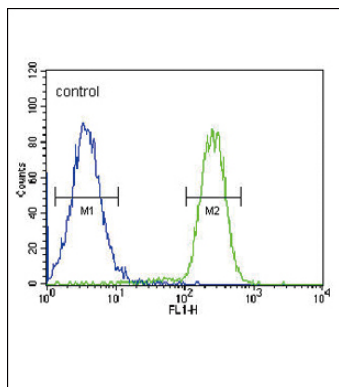


Anti-HSD17B2 Antibody (Center) at 1:1000 dilution + MDA-MB-453 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 43 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



HSD17B2 Antibody (Center) (Cat. #AP5125c) IHC analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the HSD17B2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

HSD17B2 Antibody (Center) (Cat. #AP5125c) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.