

Rabbit anti-Human HSD17B2 Polyclonal Antibody | anti-HSD17B2 antibody

Anti-HSD17B2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125658	Rabbit	Human	Flow Cytometry, Functional Assay, Western Blot

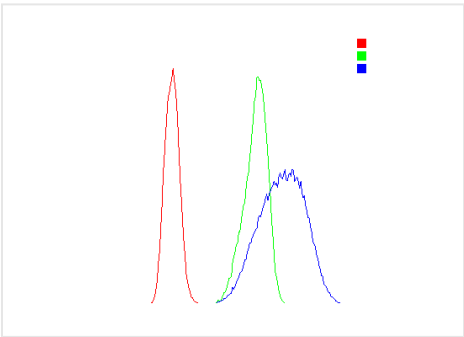
PRODUCT SYNONYMS

HSD17B2; Polyclonal Antibody; Anti-HSD17B2 Antibody; 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; Short chain dehydrogenase/reductase family 9C member 2; Testosterone 17-beta-dehydrogenase; EDH17B2; SDR9C2

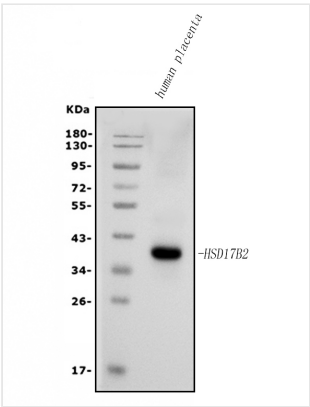
; hydroxysteroid (17-beta) dehydrogenase 2; anti-HSD17B2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for HSD17B2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-HSD17B2 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human HSD17B2 (IYDYFAKRHFGQDK).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of CACO-2 cells using anti-HSD17B2 antibody (AAA125658). Overlay histogram showing CACO-2 cells stained with AAA125658 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HSD17B2 Antibody (AAA125658, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of HSD17B2 using anti-HSD17B2 antibody (AAA125658). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human placenta tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-HSD17B2 antigen affinity purified polyclonal antibody (Catalog # AAA125658) at 0. 5 µg/mL overnight at 4 degree C, then washed with TBS-0. 1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for HSD17B2 at approximately 40KD. The expected band size for HSD17B2 is at 40KD.

ADDITIONAL INFORMATION

Related Product Information for anti-HSD17B2 antibody	HSD17B2(17-BETA-HYDROXYSTEROID DEHYDROGENASE II), also called 17-BETA-HSD II, is an anzyme which have 387 amino acids with a predicted molecular weight of 42,782 and associate with the membranes of the endoplasmic reticulum. Its Cytogenetic location is 16q23. 3. The type 2 enzyme was capable of catalyzing the interconversion of testosterone and androstenedione, as well as estradiol and estrone. HSD17B2 mRNA was detected in 18 of 42(43%) adenomas but not in prolactinomas. In the human endometrium, inactivation of 17-beta-estradiol to estrone is catalyzed by HSD17B2. And HSD17B2 activity distinguishing between disease-free and diseased endometria. HSD17B2 efficiently catalyzes the oxidative metabolism of androgens and estrogens, and it is expressed in a large series of human peripheral tissues. The previous paradigm that HSD17B2 activity in the endometrium is elevated during the secretory phase is confined to diseased endometrium but not to disease-free endometrium.
References	1. Berube, D., Luu-The, V., Simard, J., Gagne, R., Labrie, F. Localization of the beta-estradiol dehydrogenase genes to q11-q12 of chromosome 17. (Abstract) Cytogenet. Cell Genet. 51: 962 only, 1989. 2. Geissler, W. M., Davis, D. L., Wu, L., Bradshaw, K. D., Patel, S., Mendonca, B. B., Elliston, K. O., Wilson, J. D., Russell, D. W., Andersson, S. Male pseudohermaphroditism caused by mutations of testicular 17-beta-hydroxysteroid dehydrogenase 3. Nature Genet. 7: 34-39, 1994. 3. Harkness, R. A., Thistlethwaite, D., Darling, J. A. B., Skakkebaek, N. E., Corker, C. S. Neutral 17-beta-hydroxysteroid oxidoreductase deficiency in testes causing male pseudohermaphroditism in an infant. J. Inherit. Metab. Dis. 2: 51-54, 1979.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504503
NCBI GeneID	3294
NCBI Accession #	NP_002144.1
NCBI GenBank Nucleotide #	NM_002153.2
UniProt Accession #	P37059; B2R7T4

Molecular Weight	42,785 Da
NCBI Official Full Name	estradiol 17-beta-dehydrogenase 2
NCBI Official Synonym Full Names	hydroxysteroid (17-beta) dehydrogenase 2
NCBI Official Symbol	HSD17B2
NCBI Official Synonym Symbols	HSD17; SDR9C2; EDH17B2
NCBI Protein Information	estradiol 17-beta-dehydrogenase 2; E2DH; 20-alpha-HSD; 17-beta-HSD 2; testosterone 17-beta-dehydrogenase; 20 alpha-hydroxysteroid dehydrogenase; 17-beta-hydroxysteroid dehydrogenase type 2; microsomal 17-beta-hydroxysteroid dehydrogenase; short chain dehy
UniProt Protein Name	Estradiol 17-beta-dehydrogenase 2
UniProt Gene Name	HSD17B2
UniProt Synonym Gene Names	EDH17B2; 17-beta-HSD 2
UniProt Entry Name	DHB2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/hsd17b2-antibody-flow-cytometry-western-blot-elisa/125658>