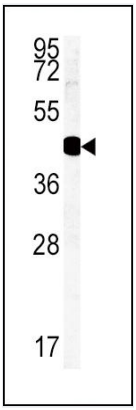
HSD17B2 Antibody – Rabbit Polyclonal

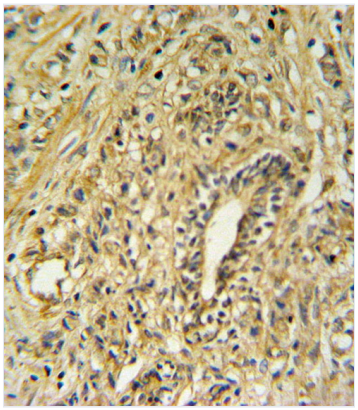
PRODUCT OVERVIEW

Product Name	HSD17B2, Polyclonal Antibody
Full Product Name	HSD17B2, ID (HSD17B2, EDH17B2, Estradiol 17-beta-dehydrogenase 2, 17-beta-hydroxysteroid dehydrogenase type 2, 20 alpha-hydroxysteroid dehydrogenase, E2DH, Microsomal 17-beta-hydroxysteroid dehydrogenase, Testosterone 17-beta-dehydrogenase) (PE)
Product Gene Name	anti-HSD17B2 antibody
Product Synonym Names	HSD17B2; EDH17B2; Estradiol 17-beta-dehydrogenase 2; 17-beta-hydroxysteroid dehydrogenase type 2; 20 alpha-hydroxysteroid dehydrogenase; E2DH; Microsomal 17-beta-hydroxysteroid dehydrogenase; Testosterone 17-beta-dehydrogenase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	42,785 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (82068858..82132139). Location: 16q24.1-q24.2
OMIM	109685
3D Structure	ModBase 3D Structure for P37059
Immunogen	HSD17B2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 270-300 amino acids from the Central region of human HSD17B2.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-HSD17B2 antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-HSD17B2 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-HSD17B2 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-HSD17B2 antibody	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.

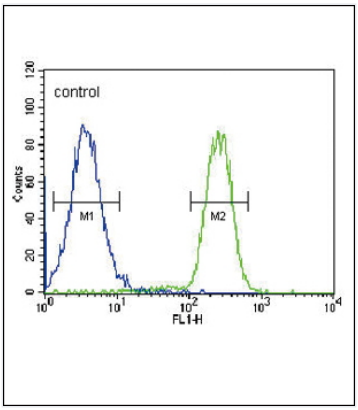
Product References and Citations for anti-HSD17B2 antibody	Shen, Z., et al. Endocrinology 150(11):4941-4949(2009). Bhavani, V., et al. Cancer Biomark 5(4):207-213(2009). Olsen, J.V., et al. Cell 127(3):635-648(2006).
Other Notes	Small volumes of anti-HSD17B2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HSD17B2 purchase	MBS6308495 is an antibody targeting HSD17B2. Also known as HSD17B2, ID (HSD17B2, EDH17B2, Estradiol 17-beta-dehydrogenase 2, 17-beta-hydroxysteroid dehydrogenase type 2, 20 alpha-hydroxysteroid dehydrogenase, E2DH, Microsomal 17-beta-hydroxysteroid dehydrogenase, Testosterone 17-beta-dehydrogenase) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-HSD17B2 antibody
Western blot analysis of HSD17B2 Antibody (Center) in MDA-MB435 cell line lysates (35ug/lane).HSD17B2 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-HSD17B2 antibody
HSD17B2 Antibody (Center) 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.



Flow Cytometry (FC/FACS) of anti-HSD17B2 antibody
HSD17B2 Antibody (Center) 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HSD17B2. It may not necessarily be applicable to this product.

NCBI GI #	4504503
NCBI GeneID	3294
NCBI Accession #	NP_002144.1
UniProt Primary Accession #	P37059
UniProt Secondary Accession #	B2R7T4
UniProt Related Accession #	P37059

GenBank Nucleotide #	NM_002153.2
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
UniProt Protein Name	Estradiol 17-beta-dehydrogenase 2
UniProt Synonym Protein Names	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
Protein Family	Estradiol 17 beta-dehydrogenase
UniProt Gene Name	HSD17B2
UniProt Synonym Gene Names	EDH17B2; 17-beta-HSD 2
UniProt Entry Name	DHB2_HUMAN
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 Comments for HSD17B2	HSD17B2: Capable of catalyzing the interconversion of testosterone and androstenedione, as well as estradiol and estrone. Also has 20-alpha-HSD activity. Uses NADH while EDH17B3 uses NADPH. Belongs to the short-chain dehydrogenases/reductases (SDR) family. Protein type: EC 1.1.1.62; EC 1.1.1.239; Lipid Metabolism - androgen and estrogen; Endoplasmic reticulum; Membrane protein, integral; Oxidoreductase Chromosomal Location of Human Ortholog: 16q24.1-q24.2 Cellular Component: endoplasmic reticulum membrane; integral to membrane Molecular Function: estradiol 17-beta-dehydrogenase activity; 20-alpha-hydroxysteroid dehydrogenase activity; 3-alpha(17-beta)-hydroxysteroid dehydrogenase (NAD+) activity Biological Process: response to retinoic acid; in utero embryonic development; steroid biosynthetic process; placenta development
Research Articles on HSD17B2	**1.** no significant difference in the genotype and allele frequencies of rs8191246 between uterine leiomyoma cases and controls
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