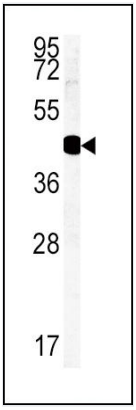
# HSD17B2 Antibody – Rabbit Polyclonal

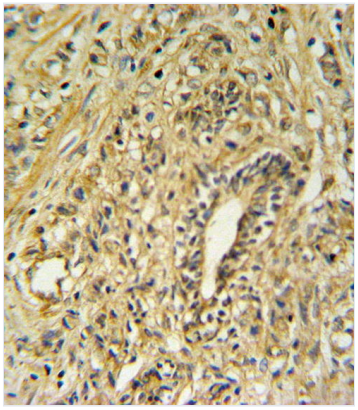
## PRODUCT OVERVIEW

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| **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) (AP) |
| **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 Alkaline Phosphatase (AP). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C. 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. 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** | AP |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-HSD17B2 antibody** | Antibodies; Enzymes; Dehydrogenase |
| **Applications Tested/Suitable for anti-HSD17B2 antibody** | Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB) |
| **Application Notes for anti-HSD17B2 antibody** | IHC: 1:50-100<br>ELISA: 1:1,000<br>WB: 1:100-500<br>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). |

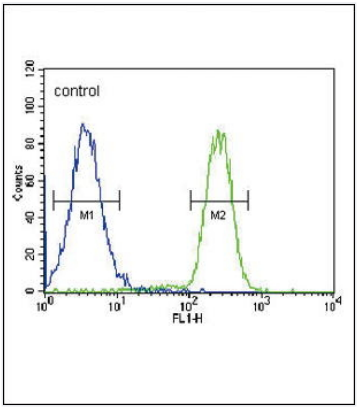
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| **Other Notes** | Small volumes of anti-HSD17B2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid 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** | MBS6308485 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) (AP). 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.

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|---|---|
| **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 |

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|---|---|
| **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.<br><br>Protein type: EC 1.1.1.62; EC 1.1.1.239; Lipid Metabolism - androgen and estrogen; Endoplasmic reticulum; Membrane protein, integral; Oxidoreductase<br><br>Chromosomal Location of Human Ortholog: 16q24.1-q24.2<br><br>Cellular Component: endoplasmic reticulum membrane; integral to membrane<br><br>Molecular Function: estradiol 17-beta-dehydrogenase activity; 20-alpha-hydroxysteroid dehydrogenase activity; 3-alpha(17-beta)-hydroxysteroid dehydrogenase (NAD+) activity<br><br>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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