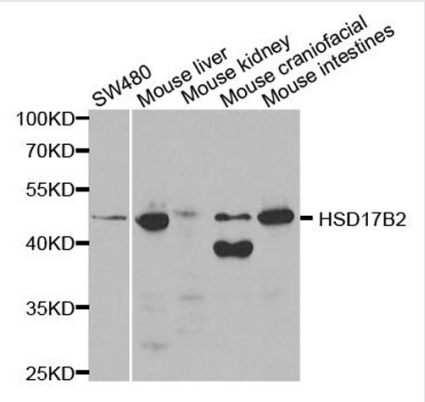
HSD17B2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HSD17B2, Polyclonal Antibody
Full Product Name	HSD17B2 Polyclonal Antibody
Product Gene Name	anti-HSD17B2 antibody
Product Synonym Names	HSD17; SDR9C2; EDH17B2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Purity/Purification	Affinity Purification
Concentration	1mg/ml (lot specific)
Preparation and Storage	Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Molecular Weight	387
OMIM	109685
3D Structure	ModBase 3D Structure for P37059
Species	Human
Immunogen	Recombinant protein of human HSD17B2
Calculated Molecular Weight	42kDa
Product Categories/Family for anti-HSD17B2 antibody	Polyclonal
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HSD17B2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-HSD17B2 antibody	WB: 1:500 - 1:2000 IHC: 1:50 - 1:200 IF: 1:50 - 1:200
Related Product Information for anti-HSD17B2 antibody	MBS128944 is an antibody targeting HSD17B2. Also known as HSD17B2 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.
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.



Western Blot (WB) of anti-HSD17B2 antibody
Western blot analysis of extracts of various cell lines, using HSD17B2 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 90s.

ADDITIONAL DETAILS

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

NCBI GI #	544152
NCBI GeneID	3294
NCBI Accession #	P37059.1
UniProt Primary Accession #	P37059
UniProt Secondary Accession #	B2R7T4
UniProt Related Accession #	P37059
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 (EC:1.1.1.239)
Protein Family	Estradiol 17 beta-dehydrogenase
UniProt Gene Name	HSD17B2
UniProt Synonym Gene Names	EDH17B2; 17-beta-HSD 2; 20-alpha-HSD
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 dehydrogenase/reductase family 9C, member 2

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; Membrane protein, integral; Oxidoreductase; Endoplasmic reticulum 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.** This study identified specific germline variations in estradiol metabolism-related pathways, namely CYP1B1, SULT2B1, and HSD17B2, as novel prognostic markers that are cumulatively associated with increased risk of prostate cancer progression
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