HSD17B3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HSD17B3, Polyclonal Antibody
Full Product Name	HSD17B3 (EDH17B3, Testosterone 17-beta-dehydrogenase 3, 17-beta-hydroxysteroid Dehydrogenase Type 3, Testicular 17-beta-hydroxysteroid Deh
Product Gene Name	anti-HSD17B3 antibody
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 MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human HSD17B3.
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 amo
Molecular Weight	34,516 Da
OMIM	264300
3D Structure	ModBase 3D Structure for P37058
Immunogen	Full length human HSD17B3, aa1-310 (NP_000188.1).
Immunogen Sequence	MGDVLEQFFILTGLLVCLACLAKCVRFSRCVLLNYWKVLPKSFLRSMGQWAVITGAGDGIGKAYSFELAKRGLNVVLISRTLEKLEAIATEIERTTGRSVKII
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-HSD17B3 antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-HSD17B3 antibody	Western Blot (WB)
Application Notes for anti-HSD17B3 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-HSD17B3 antibody	This isoform of 17 beta-hydroxysteroid dehydrogenase is expressed predominantly in the testis and catalyzes the conversion of androstenedione to tes

Other Notes	Small volumes of anti-HSD17B3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nec
Searchable Terms for HSD17B3 purchase	MBS6381724 is an antibody targeting HSD17B3. Also known as HSD17B3 (EDH17B3, Testosterone 17-beta-dehydrogenase 3, 17-beta-hydroxysteroi

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HSD17B3. It may not necessarily be applicable to this product.

NCBI GI #	4557649
NCBI GeneID	3293
NCBI Accession #	NP_000188.1
UniProt Primary Accession #	P37058
UniProt Related Accession #	P37058
GenBank Nucleotide #	NM_000197.1
NCBI Official Full Name	testosterone 17-beta-dehydrogenase 3
NCBI Official Synonym Full Names	hydroxysteroid (17-beta) dehydrogenase 3
NCBI Official Symbol	HSD17B3
NCBI Official Synonym Symbols	EDH17B3; SDR12C2
UniProt Protein Name	Testosterone 17-beta-dehydrogenase 3
UniProt Synonym Protein Names	17-beta-hydroxysteroid dehydrogenase type 3; 17-beta-HSD 3; Testicular 17-beta-hydroxysteroid dehydrogenase
Protein Family	Testosterone 17-beta-dehydrogenase
UniProt Gene Name	HSD17B3
UniProt Synonym Gene Names	EDH17B3; 17-beta-HSD 3
UniProt Entry Name	DHB3_HUMAN
NCBI Protein Information	testosterone 17-beta-dehydrogenase 3; 17-beta-HSD3; 17-beta-HSD 3; 17-beta-hydroxysteroid dehydrogenase type 3; testicular 17-beta-hydroxysteroid dehydrogenase; short chain dehydrogenase/reductase family 12C, member 2
UniProt Comments for HSD17B3	HSD17B3: Favors the reduction of androstenedione to testosterone. Uses NADPH while the two other EDH17B enzymes use NADH. Defects in HSD17B3 are the cause of male pseudohermaphrodism with gynecomastia (MPH). These individuals have unambiguous female external genitalia at birth, but fail to menstruate at the time of expected puberty and instead virilize as evidenced by growth of the phallus. Breast development may or may not take place. Belongs to the short-chain dehydrogenases/reductases (SDR) family. 17-beta-HSD 3 subfamily. Protein type: EC 1.1.1.64; Oxidoreductase; Lipid Metabolism - androgen and estrogen Chromosomal Location of Human Ortholog: 9q22 Cellular Component: endoplasmic reticulum membrane; intracellular membrane-bound organelle Molecular Function: testosterone 17-beta-dehydrogenase (NADP+) activity Biological Process: steroid metabolic process; male genitalia development; androgen biosynthetic process Disease: 17-beta Hydroxysteroid Dehydrogenase Iii Deficiency
Research Articles on HSD17B3	**1.** These results suggest that the HSD17B3 G289S polymorphism may be a potential risk modifier for hypospadias.

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