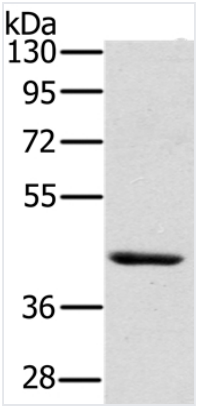
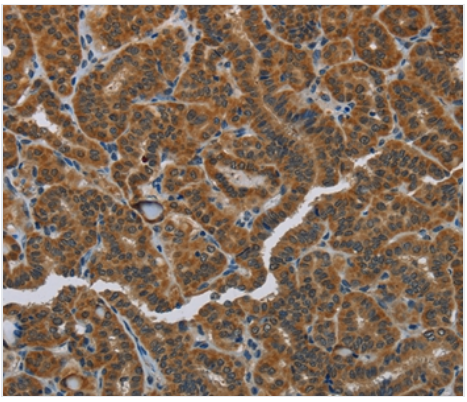
HSD3B7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HSD3B7, Polyclonal Antibody
Full Product Name	HSD3B7 Antibody
Product Gene Name	anti-HSD3B7 antibody
Product Synonym Names	CBAS1; PFIC4; SDR11E3
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.3 PBS, 0.05% NaN3, 50% Glycerol.
Purity/Purification	Antigen affinity purification.
Concentration	1.8 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total HSD3B7 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	21,322 Da
OMIM	607764
3D Structure	ModBase 3D Structure for Q9H2F3
Immunogen Type	Recombinant Protein
Immunogen Description	Fusion protein corresponding to residues near the N terminal of human hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7
Target Name	HSD3B7
Product Categories/Family for anti-HSD3B7 antibody	Total protein Ab
Applications Tested/Suitable for anti-HSD3B7 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-HSD3B7 antibody	Western blotting: 1:500-1:2000 Immunohistochemistry: 1:50-1:200
Related Product Information for anti-HSD3B7 antibody	This gene encodes an enzyme which is involved in the initial stages of the synthesis of bile acids from cholesterol and a member of the short-chain dehydrogenase/reductase superfamily. The encoded protein is a membrane-associated endoplasmic reticulum protein which is active against 7-alpha hydrosylated sterol substrates. Mutations in this gene are associated with a congenital bile acid synthesis defect which leads to neonatal cholestasis, a form of progressive liver disease. Multiple transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of anti-HSD3B7 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 HSD3B7 purchase	MBS9414734 is an antibody targeting HSD3B7. Also known as HSD3B7 Antibody. Reactive in Human. Host: Rabbit.



Testing Data of anti-HSD3B7 antibody
Gel: 8%SDS-PAGE Lysate: 40ug Skov3 cell Primary antibody: 1/400 dilution Secondary antibody dilution: 1/8000 Exposure time: 10 seconds



Immunohistochemistry (IHC) of anti-HSD3B7 antibody
Immunohistochemical analysis of paraffin-embedded Human thyroid cancer tissue using at dilution 1/40.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HSD3B7. It may not necessarily be applicable to this product.

NCBI GI #	218563684
NCBI GeneID	80270
NCBI Accession #	NP_001136249.1
UniProt Primary Accession #	Q9H2F3
UniProt Secondary Accession #	Q96M28; Q9BSN9
UniProt Related Accession #	Q9H2F3
GenBank Nucleotide #	NM_001142777.1
NCBI Official Full Name	3 beta-hydroxysteroid dehydrogenase type 7 isoform b
NCBI Official Synonym Full Names	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7
NCBI Official Symbol	HSD3B7
NCBI Official Synonym Symbols	CBAS1; PFIC4; SDR11E3
UniProt Protein Name	3 beta-hydroxysteroid dehydrogenase type 7
UniProt Synonym Protein Names	3 beta-hydroxysteroid dehydrogenase type VII; 3-beta-HSD VII; 3-beta-hydroxy-Delta(5)-C27 steroid oxidoreductase (EC:1.1.1.-); C(27) 3-beta-HSD; Cholest-5-ene-3-beta,7-alpha-diol 3-beta-dehydrogenase (EC:1.1.1.181)
Protein Family	3 beta-hydroxysteroid dehydrogenase
UniProt Gene Name	HSD3B7
UniProt Synonym Gene Names	3-beta-HSD VII; C(27) 3-beta-HSD
UniProt Entry Name	3BHS7_HUMAN
NCBI Protein Information	3 beta-hydroxysteroid dehydrogenase type 7

UniProt Comments for HSD3B7	HSD3B7: The 3-beta-HSD enzymatic system plays a crucial role in the biosynthesis of all classes of hormonal steroids. HSD VII is active against four 7-alpha-hydroxylated sterols. Does not metabolize several different C(19/21) steroids as substrates. Involved in bile acid synthesis. Defects in HSD3B7 are the cause of congenital bile acid synthesis defect type 1 (CBAS1); also known as neonatal progressive intrahepatic cholestasis. CBAS1 is due to a primary defect in bile synthesis leading to progressive liver disease. Clinical features include neonatal jaundice, severe intrahepatic cholestasis and cirrhosis. Belongs to the 3-beta-HSD family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Oxidoreductase; Lipid Metabolism - primary bile acid biosynthesis; EC 1.1.1.181; Membrane protein, integral Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: endoplasmic reticulum membrane; integral to membrane Molecular Function: 3-beta-hydroxy-delta5-steroid dehydrogenase activity; cholest-5-ene-3-beta,7-alpha-diol 3-beta-dehydrogenase activity; protein binding Biological Process: bile acid biosynthetic process; bile acid metabolic process Disease: Bile Acid Synthesis Defect, Congenital, 1
Research Articles on HSD3B7	**1.** Homozygosity mapping identifies a bile acid biosynthetic defect (3beta-HSD deficiency due to a frameshift mutation in HSD3B7) in an adult with cirrhosis of unknown etiology.
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