

Rabbit HSD17B1 Polyclonal Antibody | anti-HSD17B1 antibody

Anti-HSD17B1 antibody

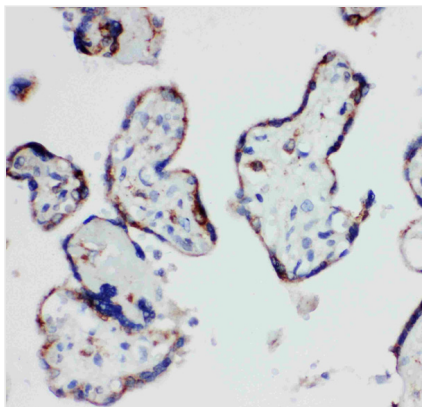
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA45734	Rabbit	Reacts with: Human, Rat Predicted Species: Mouse	Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

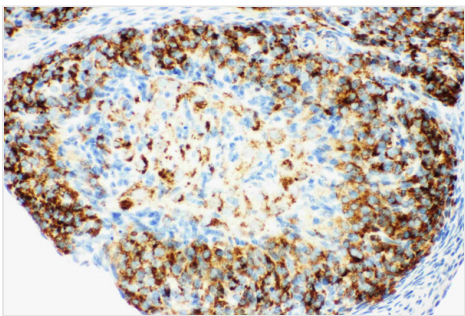
HSD17B1; Polyclonal Antibody; Anti-HSD17B1 antibody; Estradiol 17-beta-dehydrogenase 1; hydroxysteroid(17-beta) dehydrogenase 1; 17 beta HSD 1 antibody; 17 beta hydroxysteroid dehydrogenase type 1 antibody; 17-beta-HSD 1 antibody; 17-beta-hydroxysteroid dehydrogenase type 1 antibody; 20 alpha-hydroxysteroid dehydrogenase antibody; 20-alpha-HSD antibody; DHB1_HUMAN antibody; E17KSR antibody; E2DH antibody; EDH17B1 antibody; EDH17B2 antibody; EDHB17 antibody; Estradiol 17 beta dehydrogenase 1 antibody; Estradiol 17-beta-dehydrogenase 1 antibody; HSD17 antibody; HSD17B1 antibody; Hydroxysteroid(17 beta) dehydrogenase 1 antibody; MGC13814 antibody; Placental 17 beta hydroxysteroid dehydrogenase antibody; Placental 17-beta-hydroxysteroid dehydrogenase antibody; SDR28C1 antibody; Short chain dehydrogenase/reductase family 28CE; member 1 antibody; anti-HSD17B1 antibody

PRODUCT SPECIFICATIONS

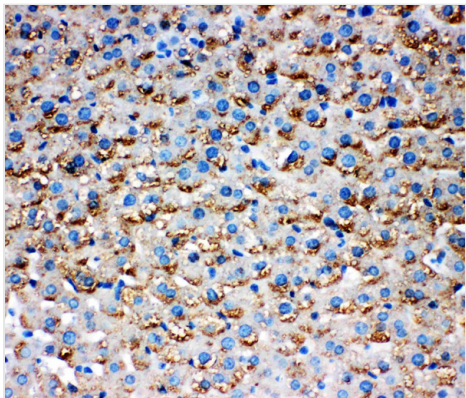
Host	Rabbit
Reactivity	Reacts with: Human, Rat Predicted Species: Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	No Cross reactivity with other proteins.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	328
Applicable Applications for anti-HSD17B1 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human HSD17B1 (29-43aa QSFKVYATLRDLKTQ), different from the related rat and mouse sequences by one amino acid.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



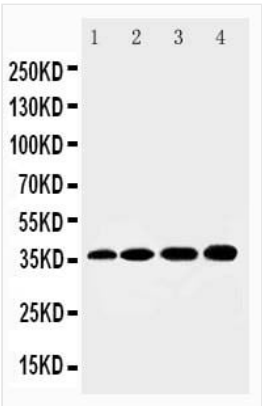
IHC (Immunohistochemistry)
Anti-HSD17B1 antibody, AAA45734, IHC(P)IHC(P): Human Placenta Tissue



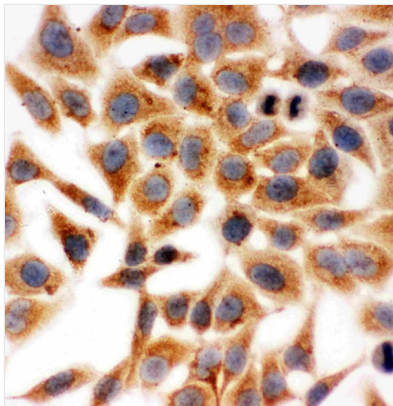
IHC (Immunohistochemistry)
Anti-HSD17B1 antibody, AAA45734, IHC(P)IHC(P): Rat Ovary Tissue



IHC (Immunohistochemistry)
Anti-HSD17B1 antibody, AAA45734, IHC(P)IHC(P): Rat Liver Tissue



WB (Western Blot)
Anti-HSD17B1 antibody, AAA45734, Western blottingLane 1: Rat Kidney Tissue LysateLane 2: Rat Liver Tissue LysateLane 3: 293T Cell LysateLane 4: HELA Cell Lysate



ICC (Immunocytochemistry)
Anti-HSD17B1 antibody, AAA45734, ICCICC: HELA Cell

ADDITIONAL INFORMATION

Related Product Information for anti-HSD17B1 antibody	Description: Rabbit IgG polyclonal antibody for Estradiol 17-beta-dehydrogenase 1(HSD17B1) detection. Tested with WB, IHC-P, ICC in Human, Mouse, Rat. Background: HSD17B1(17-BETA-HYDROXYSTEROID DEHYDROGENASE I), also known as 17-beta-hydroxysteroid dehydrogenase or 17-ketosteroid reductase, is an enzyme that is responsible for the interconversion of estrone(E1) and estradiol(E2) as well as the interconversion of androstenedione and testosterone. Its cytogenetic location is 17q21.2. HSD17B1 gene expression is detected in 34 of 42(81%) adenomas in all tumor subtypes; HSD17B2 mRNA is detected in 18 of 42(43%) adenomas but not in prolactinomas. Human estrogenic HSD17B1 is an NADP(H)-preferring enzyme. It possesses 11- and 4-fold higher specificity toward NADP(H) over NAD(H) for oxidation and reduction, respectively, as demonstrated by kinetic studies. All 4 HSD17B isoforms are variably expressed in human anterior pituitary adenomas, which also show HSD17B enzyme activity, suggesting that HSD17B may play an important role in regulating the local cellular levels of estradiol.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	313104233
NCBI GeneID	3292
UniProt Accession #	P14061; Q2M2L8; B3KXS1
Molecular Weight	34,950 Da
NCBI Official Full Name	Estradiol 17-beta-dehydrogenase 1
NCBI Official Synonym Full Names	hydroxysteroid (17-beta) dehydrogenase 1
NCBI Official Symbol	HSD17B1
NCBI Official Synonym Symbols	HSD17; EDHB17; EDH17B2; SDR28C1
NCBI Protein Information	estradiol 17-beta-dehydrogenase 1; E2DH; 20-alpha-HSD; 17-beta-HSD 1; estradiol 17-beta-dehydrogenase-1; 20 alpha-hydroxysteroid dehydrogenase; 17-beta-hydroxysteroid dehydrogenase type 1; placental 17-beta-hydroxysteroid dehydrogenase; hydroxysteroid (17-beta) dehydrogenase 1 isoform; short chain dehydrogenase/reductase family 28CE, member 1
UniProt Protein Name	Estradiol 17-beta-dehydrogenase 1
UniProt Gene Name	HSD17B1
UniProt Synonym Gene Names	E17KSR; EDH17B1; EDH17B2; EDHB17; 17-beta-HSD 1; 20-alpha-HSD
UniProt Entry Name	DHB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.