

Datasheet for ABIN5518679
anti-HSD17B1 antibody (N-Term)

5 Images

1 Publication

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Overview

Quantity:	100 µg
Target:	HSD17B1
Binding Specificity:	AA 29-43, N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Estradiol 17-beta-dehydrogenase 1(HSD17B1) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.
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.
Sequence:	QSFKVYATLR DLKTQ
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.

Product Details

Characteristics:	Rabbit IgG polyclonal antibody for Estradiol 17-beta-dehydrogenase 1(HSD17B1) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat. Gene Name: hydroxysteroid(17-beta) dehydrogenase 1 Protein Name: Estradiol 17-beta-dehydrogenase 1
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Purification:	Immunogen affinity purified.
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Target Details

Target:	HSD17B1
Alternative Name:	HSD17B1 (HSD17B1 Products)
Background:	<p>Estradiol 17-beta-dehydrogenase 1 is an enzyme that in humans is encoded by the HSD17B1 gene. This gene encodes a member of the 17beta-hydroxysteroid dehydrogenase family of short-chain dehydrogenases/reductases. It has a dual function in estrogen activation and androgen inactivation and plays a major role in establishing the estrogen E2 concentration gradient between serum and peripheral tissues. The encoded protein catalyzes the last step in estrogen activation, using NADPH to convert estrogens E1 and E2 and androgens like 4-androstenedione, to testosterone. It has an N-terminal short-chain dehydrogenase domain with a cofactor binding site, and a narrow, hydrophobic C-terminal domain with a steroid substrate binding site. This gene is expressed primarily in the placenta and ovarian granulosa cells, and to a lesser extent, in the endometrium, adipose tissue, and prostate. Polymorphisms in this gene have been linked to breast and prostate cancer. A pseudogene of this gene has been identified. Alternative splicing results in multiple transcript variants.</p> <p>Synonyms: 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</p>
UniProt:	P14061
Pathways:	Metabolism of Steroid Hormones and Vitamin D , Steroid Hormone Biosynthesis

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
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Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.
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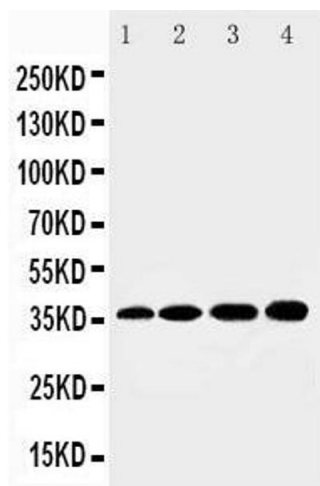
Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Sodium azide, Thimerosal (Merthiolate)
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

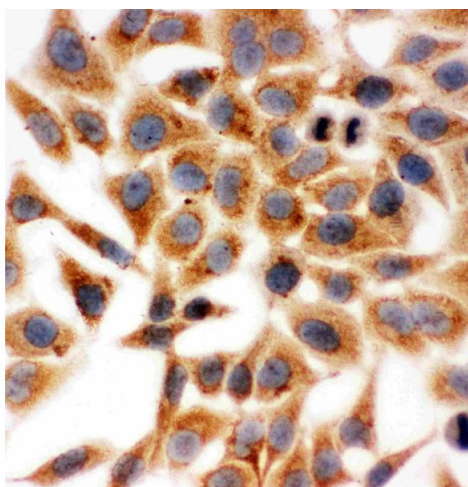
Publications

Product cited in:	Acar, Tayyar, Yuksel, Atis Aydin, Yildirim, Ekiz, Dag, Topcu: "Increased maternal C1q/TNF-related protein-1 (CTRP-1) serum levels in pregnancies with preeclampsia." in: The journal of maternal-fetal & neonatal medicine , pp. 1-6, (2018) (PubMed).
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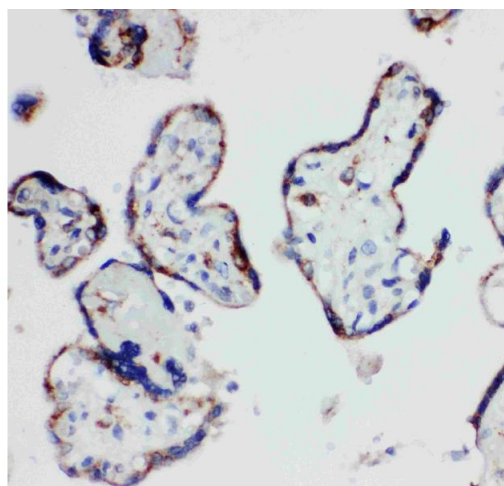
Western Blotting

Image 1. Anti-HSD17B1 antibody, Western blotting Lane 1: Rat Kidney Tissue Lysate Lane 2: Rat Liver Tissue Lysate Lane 3: 293T Cell Lysate Lane 4: HELA Cell Lysate



Immunofluorescence

Image 2. Anti-HSD17B1 antibody, ICC: HELA Cell



Immunohistochemistry

Image 3. Anti-HSD17B1 antibody, IHC(P): Human Placenta Tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN5518679.