

Datasheet for ABIN3044284
anti-HSD17B4 antibody (C-Term)[Go to Product page](#)

4 Images

Overview

Quantity:	100 µg
Target:	HSD17B4
Binding Specificity:	AA 744-761, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HSD17B4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Peroxisomal multifunctional enzyme type 2(HSD17B4) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Hydroxysteroid(17-beta) Dehydrogenase 4(744-761aa NIMLSQKLQMILKDYAKL), identical to the related rat and mouse sequences.
Sequence:	NIMLSQKLQM ILKDYAKL
Isotype:	IgG
Cross-Reactivity (Details):	<p>Predicted Cross Reactivity: mouse</p> <p>No cross reactivity with other proteins.</p> <p>Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.</p>

Product Details

Characteristics:	Rabbit IgG polyclonal antibody for Peroxisomal multifunctional enzyme type 2(HSD17B4) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: hydroxysteroid(17-beta) dehydrogenase 4 Protein Name: Peroxisomal multifunctional enzyme type 2
Purification:	Immunogen affinity purified.

Target Details

Target:	HSD17B4
Alternative Name:	HSD17B4 (HSD17B4 Products)

Background:	<p>Peroxisomal multifunctional enzyme type 2 is a protein that in humans is encoded by the HSD17B4 gene. The protein encoded by this gene is a bifunctional enzyme that is involved in the peroxisomal beta-oxidation pathway for fatty acids. It also acts as a catalyst for the formation of 3-ketoacyl-CoA intermediates from both straight-chain and 2-methyl-branched-chain fatty acids. Defects in this gene that affect the peroxisomal fatty acid beta-oxidation activity are a cause of D-bifunctional protein deficiency (DBPD). An apparent pseudogene of this gene is present on chromosome 8. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.</p>
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Synonyms: 12-alpha-trihydroxy-5-beta-cholest-24-enoyl-CoA hydratase antibody|17 beta HSD 4 antibody|17 beta HSD IV antibody|17 beta hydroxysteroid dehydrogenase 4 antibody|17-beta-HSD 4 antibody|17-beta-hydroxysteroid dehydrogenase 4 antibody|17beta estradiol dehydrogenase type IV antibody|3 alpha 7 alpha12 alpha trihydroxy 5 beta cholest 24 enoyl CoA hydratase antibody|3-alpha antibody|7-alpha antibody|Beta hydroxyacyl dehydrogenase antibody|Beta keto reductase antibody|D 3 hydroxyacyl CoA dehydratase antibody|D bifunctional protein antibody|D bifunctional protein peroxisomal antibody|D-bifunctional protein antibody|DBP antibody|DHB4_HUMAN antibody|EDH17B4 antibody|Enoyl-CoA hydratase 2 antibody|Hsd17b4 antibody|MFE 2 antibody|MFE-2 antibody|MPF-2 antibody|Multifunctional protein 2 antibody|Peroxisomal multifunctional enzyme type 2 antibody|Peroxisomal multifunctional protein 2 antibody|SDR8C1 antibody|Short chain dehydrogenase/reductase family 8C member 1 antibody

Pathways:	Monocarboxylic Acid Catabolic Process
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Application Details

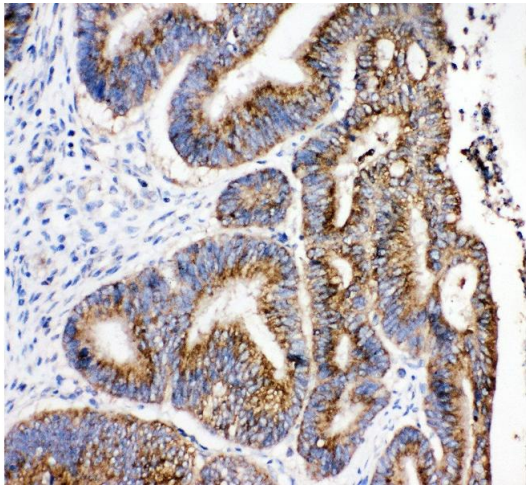
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. 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).
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Restrictions:	For Research Use only
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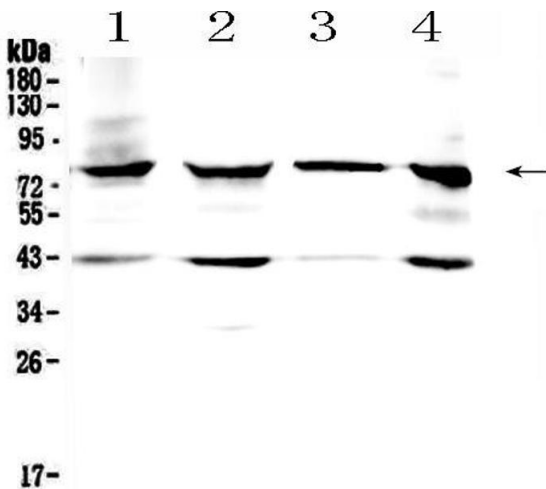
Handling

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:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
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.
Expiry Date:	12 months



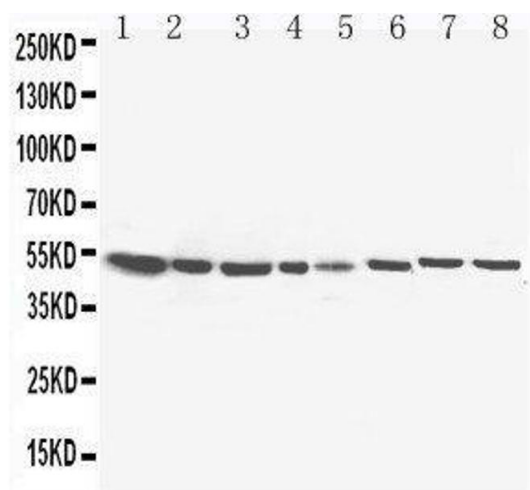
Immunohistochemistry

Image 1. Anti-Hydroxysteroid(17-beta) Dehydrogenase 4 antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue



Western Blotting

Image 2. Western blot analysis of HSD17B4 using anti-HSD17B4 antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse heart tissue lysates, Lane 2: rat heart tissue lysates, Lane 3: human placenta tissue lysates, Lane 4: MCF-7 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HSD17B4 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for HSD17B4 at approximately 80KD. The expected band size for HSD17B4 is at 80KD.



Western Blotting

Image 3. Lane 8: COL0320 Cell Lysate

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3044284.