

Product datasheet

Anti-HSD3B1 antibody [EPR9687] ab167417

Recombinant RabMAb

[4 References](#) [3 Images](#)

Overview

Product name	Anti-HSD3B1 antibody [EPR9687]
Description	Rabbit monoclonal [EPR9687] to HSD3B1
Host species	Rabbit
Specificity	The immunogen used for this product shares 83% homology and 6 continuous identical amino acids with HSD3B2(SwissProt: P26439). Cross-reactivity with this protein has not been confirmed experimentally.
Tested applications	Suitable for: WB, ICC/IF Unsuitable for: IHC-P or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human placenta cell lysate, Caco-2 cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture</p>

	supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR9687
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab167417 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

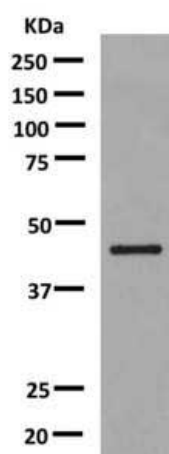
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 42 kDa.
ICC/IF		1/250 - 1/500.

Application notes Is unsuitable for IHC-P or IP.

Target

Function	3-beta-HSD is a bifunctional enzyme, that catalyzes the oxidative conversion of Delta(5)-ene-3-beta-hydroxy steroid, and the oxidative conversion of ketosteroids. The 3-beta-HSD enzymatic system plays a crucial role in the biosynthesis of all classes of hormonal steroids. Efficiently catalyzes the transformation of pregnenolone to progesterone, 17-alpha-hydroxypregnenolone to 17-alpha-hydroxyprogesterone, DHEA to 4-androstenedione, dihydrotestosterone to 5-alpha-androstane-3 beta,17 beta-diol, dehydroepiandrosterone to androstenedione and 5-alpha-androstan-3 beta,17 beta-diol to 5-alpha-dihydrotestosterone.
Tissue specificity	Placenta and skin. Predominantly expressed in mammary gland tissue.
Pathway	Lipid metabolism; steroid biosynthesis.
Sequence similarities	Belongs to the 3-beta-HSD family.
Cellular localization	Endoplasmic reticulum membrane. Mitochondrion membrane.

Images



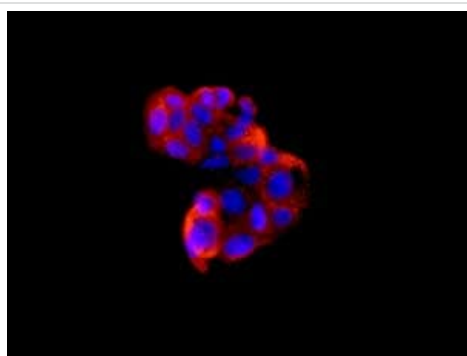
Western blot - Anti-HSD3B1 antibody [EPR9687] (ab167417)

Anti-HSD3B1 antibody [EPR9687] (ab167417) at 1/1000 dilution + Human placenta cell lysate at 10 μ g

Secondary

Goat anti-rabbit HRP antibody at 1/2000 dilution

Predicted band size: 42 kDa



Immunocytochemistry/ Immunofluorescence - Anti-HSD3B1 antibody [EPR9687] (ab167417)

Immunofluorescent analysis of Caco-2 cells labeling HSD3B1 with ab167417 at 1/250 dilution.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-HSD3B1 antibody [EPR9687] (ab167417)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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