abcam

Product datasheet

Anti-HSD11B1 antibody ab39364

★★★★★ 2 Abreviews 25 References 2 Images

Overview

Product name	Anti-HSD11B1 antibody
Description	Rabbit polyclonal to HSD11B1
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Rabbit, Hamster, Cow, Cat, Dog, Monkey, Cynomolgus monkey, Macaque monkey
Immunogen	Synthetic peptide corresponding to Human HSD11B1 aa 50-150. Run BLAST with ExPASy Run BLAST with NCBI
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 0.1% BSA, 50% Glycerol
Purity	Immunogen affinity purified
Purification notes	ab39364 is an affinity purified IgG
Clonality	Polyclonal
Isotype	IgG

Applications

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The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab39364 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)	Use a concentration of 1 µg/ml. Detects a band of approximately 35 kDa (predicted molecular weight: 32 kDa).

Target

Function Catalyzes reversibly the conversion of cortisol to the inactive metabolite cortisone. Catalyzes reversibly the conversion of 7-ketocholesterol to 7-beta-hydroxycholesterol. In intact cells, the reaction runs only in one direction, from 7-ketocholesterol to 7-beta-hydroxycholesterol.

Tissue specificity Widely expressed. Highest expression in liver.

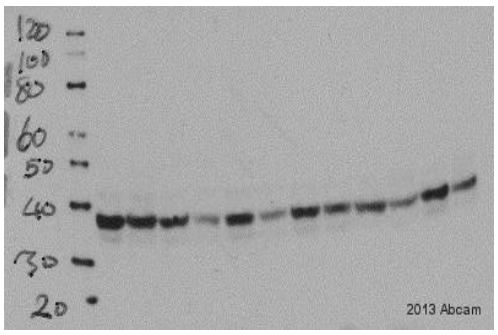
Involvement in disease Defects in HSD11B1 are a cause of cortisone reductase deficiency (CRD) [MIM:604931]. In CRD, activation of cortisone to cortisol does not occur, resulting in adrenocorticotropin-mediated androgen excess and a phenotype resembling polycystic ovary syndrome (PCOS).

Sequence similarities Belongs to the short-chain dehydrogenases/reductases (SDR) family.

Post-translational modifications Glycosylated.

Cellular localization Endoplasmic reticulum membrane.

Images



Western blot - Anti-HSD11B1 antibody (ab39364)

This image is courtesy of an Abreview submitted by Rob Cordery-Cotter. Experimental work performed by Megan A. Walton.

Western blot analysis of Sheep liver tissue lysate (5µg/lane) labeling HSD11B1 with ab39364 at 1/500 (16 hours at 4ºC). An undiluted HRP-conjugated Goat anti-rabbit IgG polyclonal was used as the secondary antibody.

Western blot - Anti-HSD11B1 antibody (ab39364)

Anti-HSD11B1 antibody (ab39364) at 1 µg/ml + Human liver tissue lysate - total protein (**ab29889**) at 10 µg

Secondary
Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 32 kDa

Exposure time: 16 minutes

HSD11B1 contains a number of potential glycosylation sites (SwissProt) which may explain the higher migration pattern observed.

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

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