

Product datasheet

Anti-HSD11B1 antibody ab27501

2 References 2 Images

Overview

Product name	Anti-HSD11B1 antibody
Description	Goat polyclonal to HSD11B1
Host species	Goat
Tested applications	Suitable for: IHC-P, ELISA, WB
Species reactivity	Reacts with: Human Predicted to work with: Sheep, Cow, Plasmodium falciparum 
Immunogen	Synthetic peptide: CTSYNMDRFINK from the C terminus of Human HSD11B1. (Peptide available as ab136288 .)  Run BLAST with  Run BLAST with
Positive control	Human Liver lysate for Western blot.
General notes	

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, Tris buffered saline, pH 7.3
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunising peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab27501** in the following tested applications.

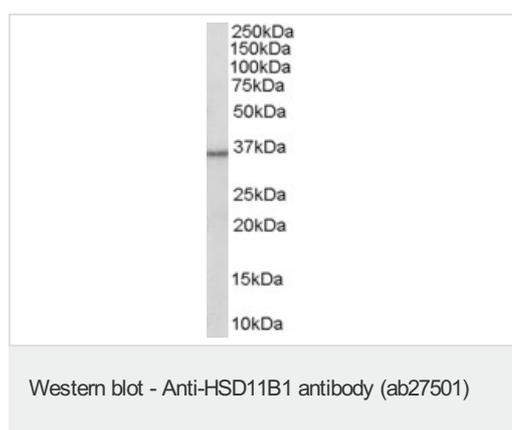
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 10 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ELISA		1/4000.
WB		Use a concentration of 0.3 - 2 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



Anti-HSD11B1 antibody (ab27501) at 0.3 µg/ml + Human Liver lysate (35 µg protein in RIPA buffer).

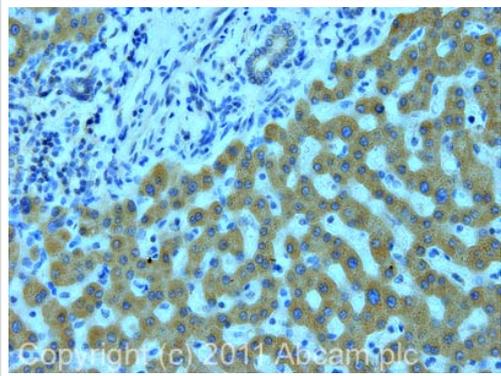
Developed using the ECL technique.

Predicted band size: 32 kDa

Observed band size: 35 kDa

[why is the actual band size different from the predicted?](#)

Primary incubation was 1 hour.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HSD11B1 antibody (ab27501)

IHC image of ab27501 staining in human normal liver formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol B. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab27501, 10µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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