# abcam

#### Product datasheet

## Anti-HSD11B1 antibody [EPR9407(2)] ab157223

Recombinant RobMAb

2 References 5 Images

Overview

Product name Anti-HSD11B1 antibody [EPR9407(2)]

**Description** Rabbit monoclonal [EPR9407(2)] to HSD11B1

Host species Rabbit

Tested applications Suitable for: Flow Cyt (Intra), WB, IHC-P, ICC/IF

Species reactivity Reacts with: Human

**Immunogen** Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control WB: Human liver lysate, Flow Cyt (intra): HepG2 cells; ICC/IF: HepG2 cells; IHC: Human liver

lysate.

**General notes**This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility

- Improved sensitivity and specificity

- Long-term security of supply

- Animal-free production

For more information see here.

Our RabMAb $^{@}$  technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to  ${\hbox{\it RabMAb}}^{@}$  patents.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with

these species. Please contact us for more information.

**Properties** 

Form Liquid

**Storage instructions** Shipped at 4°C. Store at -20°C.

Storage buffer pH: 7.20

Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

Purity Protein A purified

Clonality Monoclonal
Clone number EPR9407(2)

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**Isotype** IgG

### **Applications**

The Abpromise guarantee

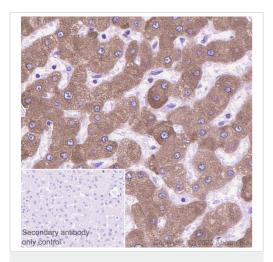
Our <u>Abpromise guarantee</u> covers the use of ab157223 in the following tested applications.

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

Application	Abreviews	Notes
Flow Cyt (Intra)		1/30.
WB		1/10000 - 1/50000. Predicted molecular weight: 32 kDa.
IHC-P		1/1500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/50 - 1/100.

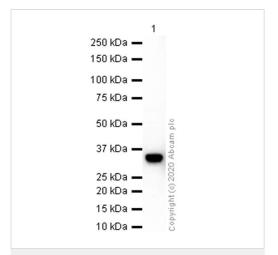
Catalyzes reversibly the conversion of cortisol to the inactive metabolite cortisone. Catalyzes reversibly the conversion of 7-ketocholesterol to 7-beta-hydroxycholesterol. In intact cells, the reaction runs only in one direction, from 7-ketocholesterol to 7-beta-hydroxycholesterol.	
Widely expressed. Highest expression in liver.	
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).	
Belongs to the short-chain dehydrogenases/reductases (SDR) family.	
Glycosylated.	
Endoplasmic reticulum membrane.	

**Images** 



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-HSD11B1 antibody
[EPR9407(2)] (ab157223)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human liver tissue sections labeling HSD11B1 with purified ab157223 at 1/1500 dilution (0.172 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



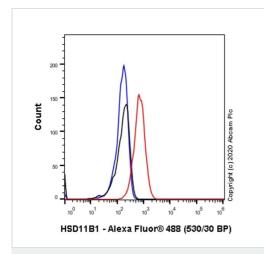
Western blot - Anti-HSD11B1 antibody [EPR9407(2)] (ab157223)

Anti-HSD11B1 antibody [EPR9407(2)] (ab157223) at 1/10000 dilution (Purified) + Human liver lysate

#### Secondary

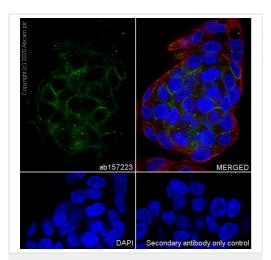
Goat Anti-Rabbit lgG (HRP) with minimal cross-reactivity with human lgG at 1/2000 dilution

Predicted band size: 32 kDa



Flow Cytometry (Intracellular) - Anti-HSD11B1 antibody [EPR9407(2)] (ab157223)

Intracellular Flow Cytometry analysis of HepG2 (Human hepatocellular carcinoma epithelial cell) cells labeling HSD11B1 with Purified ab157223 at 1/30 dilution (10 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488 ,ab150077) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunocytochemistry/ Immunofluorescence - Anti-HSD11B1 antibody [EPR9407(2)] (ab157223) Immunocytochemistry analysis of HepG2 (Human hepatocellular carcinoma epithelial cell) cells labeling HSD11B1 with Purified ab157223 at 1:50 dilution (5.2 μg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 μg/ml). Goat anti rabbit lgG (Alexa Fluor® 488,ab150077) was used as the secondary antibody at 1:1000 (2 μg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



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

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