

Product datasheet

Anti-HSD3B1 antibody [3C11-D4] ab55268

★★★★★ [3 Abreviews](#) [19 References](#) [3 Images](#)

Overview

Product name	Anti-HSD3B1 antibody [3C11-D4]
Description	Mouse monoclonal [3C11-D4] to HSD3B1
Host species	Mouse
Tested applications	Suitable for: Flow Cyt, WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length protein corresponding to Human HSD3B1 aa 1-373.
General notes	<p>This product was changed from ascites to tissue culture supernatant on 4th April 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Constituent: 100% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	3C11-D4
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab55268 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		Use at an assay dependent concentration. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB		Use at an assay dependent concentration. Detects a band of approximately 42 kDa (predicted molecular weight: 42 kDa).
IHC-P	★★★★★ (2)	Use at an assay dependent concentration.

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.

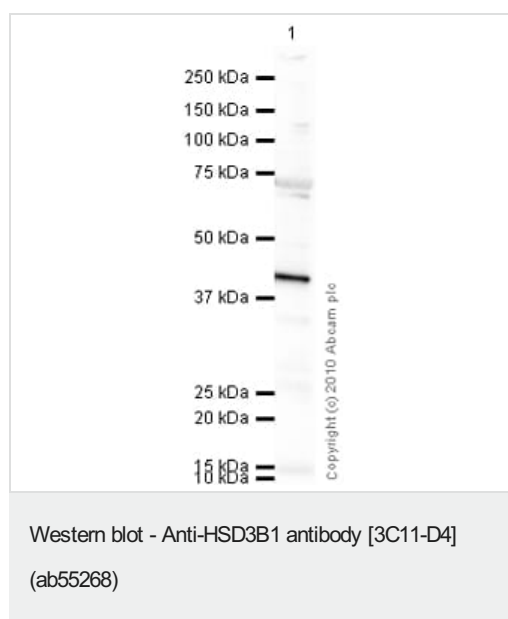
Sequence similarities

Belongs to the 3-beta-HSD family.

Cellular localization

Endoplasmic reticulum membrane. Mitochondrion membrane.

Images



Anti-HSD3B1 antibody [3C11-D4] (ab55268) at 1 µg/ml + Human placenta tissue lysate - total protein (**ab29745**) at 10 µg

Secondary

Goat Anti-Mouse IgG H&L (HRP) preadsorbed (**ab97040**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 42 kDa

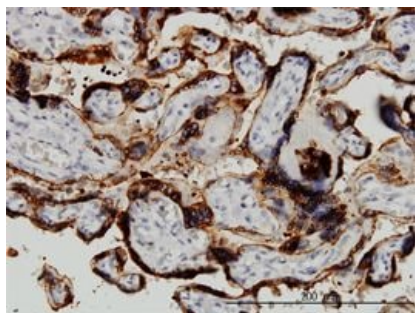
Observed band size: 42 kDa

Additional bands at: 73 kDa. We are unsure as to the identity of

these extra bands.

Exposure time: 4 minutes

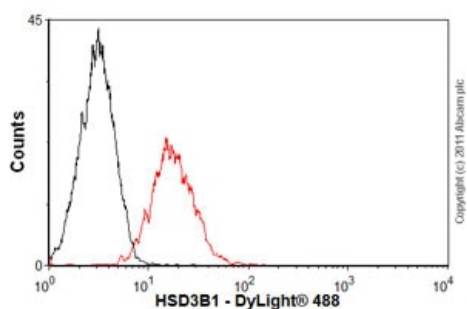
This image was generated using the ascites version of the product.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HSD3B1 antibody [3C11-D4] (ab55268)

HSD3B1 antibody (ab55268) used in immunohistochemistry at 5ug/ml on formalin fixed and paraffin embedded human placenta.

This image was generated using the ascites version of the product.



Flow Cytometry - Anti-HSD3B1 antibody [3C11-D4] (ab55268)

Overlay histogram showing JEG3 cells stained with ab55268 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab55268, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1]([ab91353](#), 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in JEG3 cells fixed with 80% methanol/permeabilized in 0.1% PBS-Tween used under the same conditions.

This image was generated using the ascites version of the product.

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