


Product datasheet

Anti-HSD3B2 antibody [373CT9.1.3] α b75710

★★★★★ [2 Abreviews](#) [11 References](#) [2 Images](#)

Overview

Product name	Anti-HSD3B2 antibody [373CT9.1.3]
Description	Mouse monoclonal [373CT9.1.3] to HSD3B2
Host species	Mouse
Tested applications	Suitable for: WB, Flow Cyt (Intra)
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Sheep, Goat, Horse, Cow, Cat, Dog, Pig, Cynomolgus monkey, Macaque monkey, Rhesus monkey 
Immunogen	Synthetic peptide corresponding to Human HSD3B2 aa 1-100 conjugated to keyhole limpet haemocyanin.
Positive control	This antibody gave a positive signal in human adrenal tissue lysate.
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</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 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Protein G purified
Clonality	Monoclonal

Clone number	373CT9.1.3
Myeloma	Sp2/0
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab75710 in the following tested applications.

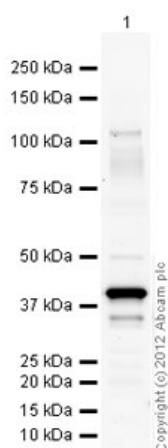
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 40 kDa (predicted molecular weight: 42 kDa). Abcam recommends blocking using 3% milk.
Flow Cyt (Intra)		Use 0.1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

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.
Tissue specificity	Expressed in adrenal gland, testis and ovary.
Pathway	Lipid metabolism; steroid biosynthesis.
Involvement in disease	Defects in HSD3B2 are the cause of adrenal hyperplasia type 2 (AH2) [MIM:201810]. AH2 is a form of congenital adrenal hyperplasia, a common recessive disease due to defective synthesis of cortisol. Congenital adrenal hyperplasia is characterized by androgen excess leading to ambiguous genitalia in affected females, rapid somatic growth during childhood in both sexes with premature closure of the epiphyses and short adult stature. Four clinical types: 'salt wasting' (SW, the most severe type), 'simple virilizing' (SV, less severely affected patients), with normal aldosterone biosynthesis, 'non-classic form' or late onset (NC or LOAH), and 'cryptic' (asymptomatic). In AH2, virilization is much less marked or does not occur. AH2 is frequently lethal in early life. Note=Mild HSD3B2 deficiency in hyperandrogenic females is associated with characteristic traits of polycystic ovary syndrome, such as insulin resistance and luteinizing hormon hypersecretion.
Sequence similarities	Belongs to the 3-beta-HSD family.
Cellular localization	Endoplasmic reticulum membrane. Mitochondrion membrane.

Images



Western blot - Anti-HSD3B2 antibody [373CT9.1.3] (ab75710)

Anti-HSD3B2 antibody [373CT9.1.3] (ab75710) at 1 µg/ml + Human adrenal normal tissue lysate - total protein (**ab29249**) at 20 µg

Secondary

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

Developed using the ECL technique.

Performed under reducing conditions.

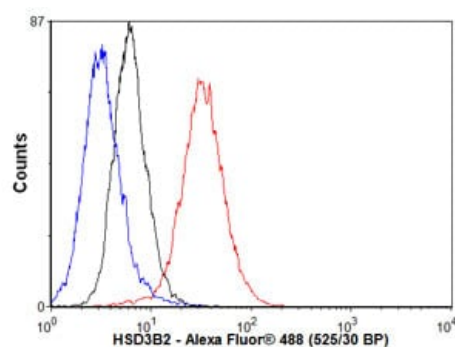
Predicted band size: 42 kDa

Observed band size: 40 kDa

Additional bands at: 110 kDa, 35 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 20 minutes

Blocked using 3% milk.



Flow Cytometry (Intracellular) - Anti-HSD3B2 antibody [373CT9.1.3] (ab75710)

Overlay histogram showing JEG3 cells stained with ab75710 (red line). The cells were fixed with 80% methanol (5 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 (ab75710, 0.1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (**ab150113**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

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