

Product datasheet

Anti-HSD3B2 antibody ab154385

★★★★★ [1 Abreviews](#) [3 References](#) [4 Images](#)

Overview

Product name	Anti-HSD3B2 antibody
Description	Rabbit polyclonal to HSD3B2
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment, corresponding to a region within amino acids 126-372 of Human HSD3B2 (UniProt: P26439).
Positive control	Raji and HeLaS3 whole cell lysates; HeLa cells; Human A549 xenograft tissue.
General notes	<p>HSD3B2 and HSD3B1 proteins are quite similar in sequence so this product may react with both proteins.</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. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.00</p> <p>Preservative: 0.01% Thimerosal (merthiolate)</p> <p>Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab154385 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		1/500 - 1/3000. Predicted molecular weight: 42 kDa.
IHC-P	★★★★★ (1)	1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/1000.

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.

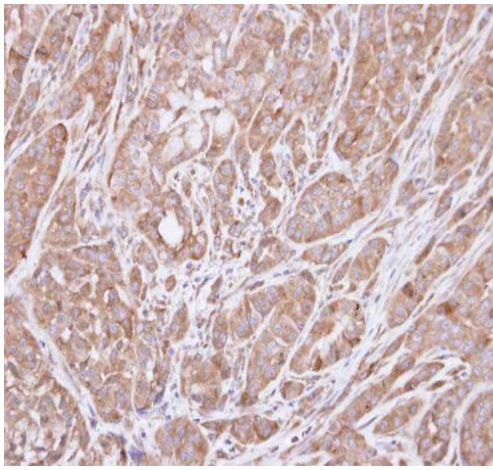
Sequence similarities

Belongs to the 3-beta-HSD family.

Cellular localization

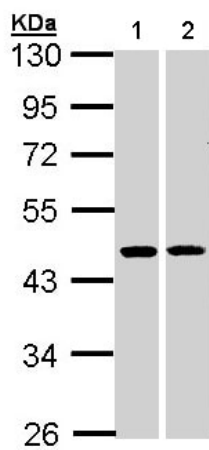
Endoplasmic reticulum membrane. Mitochondrion membrane.

Images



Immunohistochemical analysis of paraffin-embedded Human A549 xenograft tissue, labeling HSD3B2 with ab154385 at 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HSD3B2 antibody (ab154385)



All lanes : Anti-HSD3B2 antibody (ab154385) at 1/1000 dilution

Lane 1 : Raji whole cell lysate

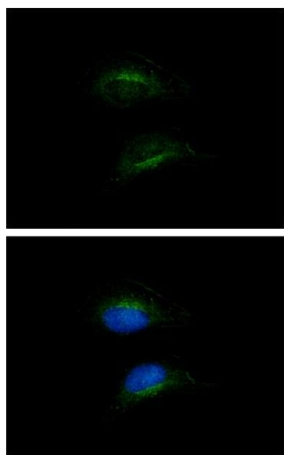
Lane 2 : HeLaS3 whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 42 kDa

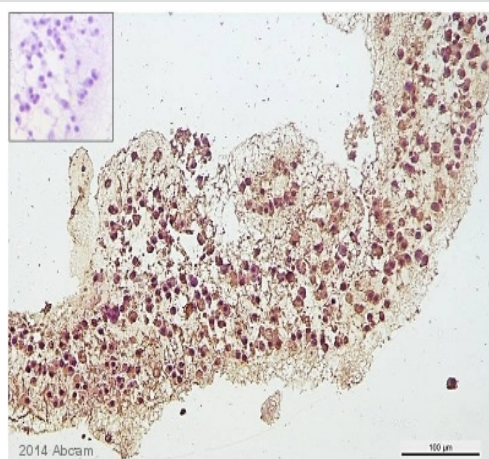
Western blot - Anti-HSD3B2 antibody (ab154385)

10% SDS PAGE



Immunocytochemistry/ Immunofluorescence - Anti-HSD3B2 antibody (ab154385)

Immunofluorescent analysis of methanol-fixed HeLa cells, labeling HSD3B2 with ab154385 at 1/200 dilution. Lower image shows cells co-stained with Hoechst 33342.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HSD3B2 antibody (ab154385)

This image is courtesy of an Abreview submitted by Hilde Nelis

ab154385 staining HSD3B2 in horse cumulus cells by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 20% bovine serum for 1 hour at 18°C; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (1/100 in 2% BSA) for 18 hours at 18°C. A Biotin-conjugated goat anti-rabbit IgG polyclonal (1/500) was used as the secondary antibody.

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