


Product datasheet

Anti-Steroidogenic Factor 1/SF-1 antibody ab65815

★★★★★ 5 Abreviews 4 References 5 Images

Overview

<b>Product name</b>	Anti-Steroidogenic Factor 1/SF-1 antibody
<b>Description</b>	Rabbit polyclonal to Steroidogenic Factor 1/SF-1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Horse, Cow, Pig 
<b>Immunogen</b>	Synthetic peptide corresponding to Human Steroidogenic Factor 1/SF-1 aa 400 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab74765</a> , <a href="#">ab74766</a> )
<b>Positive control</b>	Recombinant Human Steroidogenic Factor 1/SF-1 protein ( <a href="#">ab114599</a> ) can be used as a positive control in WB. This antibody gave a positive signal in the following human tissue lysates: Testis; Ovary; Thymus.
<b>General notes</b>	<p>Previously labelled as Steroidogenic Factor 1.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&amp;As.</p>

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS  Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab65815** 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	★★★★★	Use a concentration of 1 µg/ml. Detects a band of approximately 55 kDa (predicted molecular weight: 52 kDa).
IHC-P	★★★★☆	Use at an assay dependent concentration.

## Target

<b>Function</b>	Transcriptional activator. Seems to be essential for sexual differentiation and formation of the primary steroidogenic tissues. Binds to the Ad4 site found in the promoter region of steroidogenic P450 genes such as CYP11A, CYP11B and CYP21B. Also regulates the AMH/Muellerian inhibiting substance gene as well as the AHCH and STAR genes. 5'-YCAAGGYC-3' and 5'-RRAGGTCA-3' are the consensus sequences for the recognition by NR5A1. The SFPQ-NONO-NR5A1 complex binds to the CYP17 promoter and regulates basal and cAMP-dependent transcriptional activity. Binds phosphatidylcholine (By similarity). Binds phospholipids with a phosphatidylinositol (PI) headgroup, in particular PI(3,4)P2 and PI(3,4,5)P3.
<b>Involvement in disease</b>	Defects in NR5A1 are a cause of 46,XY disorder of sex development (46,XY DSD) [MIM:612965]; also known as XY sex reversal with or without adrenal failure. A congenital condition in which development of chromosomal, gonadal, or anatomic sex is atypical. 46,XY DSD is a disorder of gonadal (testicular) development, which may be complete or partial. The complete form includes streak gonads, normal mullerian structures, and normal female external genitalia. The partial form includes ambiguous external genitalia and partial development of mullerian and wolffian structures.

Defects in NR5A1 are a cause of adrenocortical insufficiency without ovarian defect (ACIWOD) [MIM:184757]. ACIWOD is characterized by severe 'slackness' muscular hypotonia. There is decreased sodium, increased potassium and elevated ACTH.

Defects in NR5A1 are the cause of premature ovarian failure type 7 (POF7) [MIM:612964]. An ovarian disorder defined as the cessation of ovarian function under the age of 40 years. It is characterized by oligomenorrhea or amenorrhea, in the presence of elevated levels of serum gonadotropins and low estradiol.

### Sequence similarities

Belongs to the nuclear hormone receptor family. NR5 subfamily.

Contains 1 nuclear receptor DNA-binding domain.

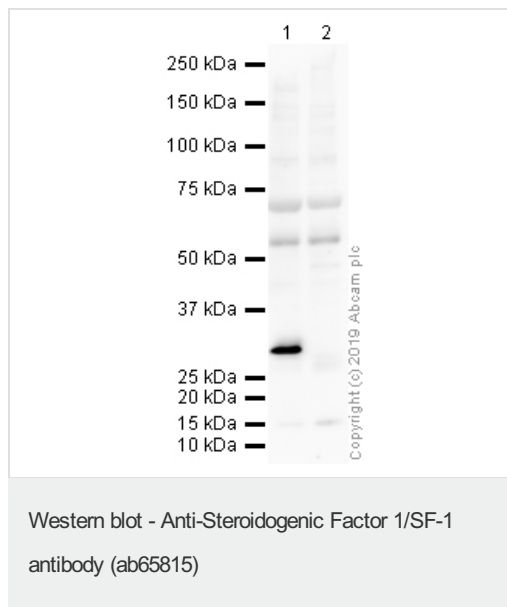
### Post-translational modifications

Acetylation stimulates the transcriptional activity.

### Cellular localization

Nucleus.

## Images



**All lanes :** Anti-Steroidogenic Factor 1/SF-1 antibody (ab65815) at 1 µg/ml

**Lane 1 :** Human testis tissue lysate - total protein

**Lane 2 :** Human ovary tissue lysate - total protein

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 52 kDa

**Observed band size:** 55 kDa

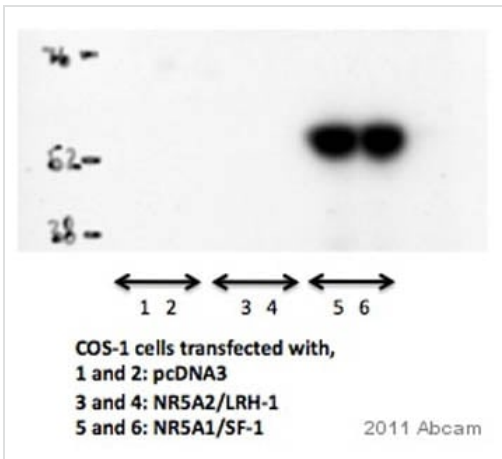
[why is the actual band size different from the predicted?](#)

**Additional bands at:** 30 kDa (possible non-specific binding), 70 kDa (possible non-specific binding)

**Exposure time:** 16 minutes

Steroidogenic Factor 1/SF-1 contains a potential phosphorylation site, as well as a number of acetylation sites (SwissProt), which may explain its migration at a higher molecular weight than predicted.

The 55 kDa band observed is comparable to the molecular weight seen with other commercially available antibodies to this target.



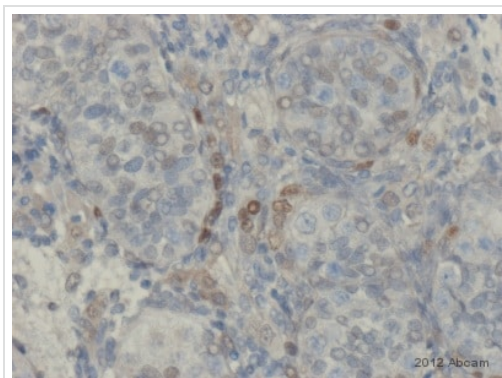
Western blot - Anti-Steroidogenic Factor 1/SF-1 antibody (ab65815)

Image courtesy of Chun Fui Lai by Abreview.

COS-1 whole cell lysate added at 20µg.

Primary antibody used at a 1/1000 dilution.

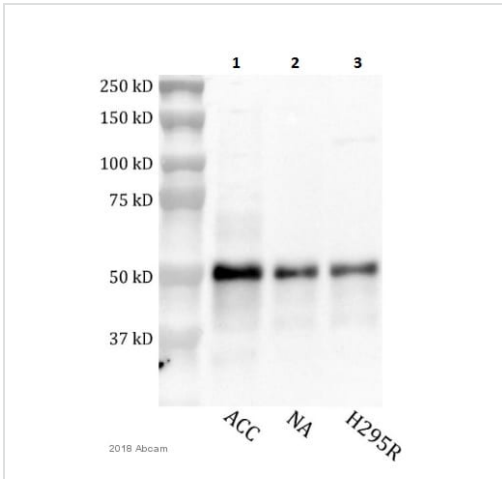
Secondary antibody used was a goat anti-rabbit IgG/ HRP at a 1/2500 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Steroidogenic Factor 1/SF-1 antibody (ab65815)

The image is from an anonymous abreview.

IHC-P image of Steroidogenic Factor 1/SF-1 (ab65815) on Human testis sections. The sections were fixed in Paraformaldehyde and underwent heat mediated antigen retrieval using Novacastra (pH6). The sections were then blocked in 0.3% H<sub>2</sub>O<sub>2</sub> solution for 10 mins at 22°C.



Western blot - Anti-Steroidogenic Factor 1/SF-1 antibody (ab65815)

Image courtesy of Karin Sanders by Abreview.

**All lanes** : Anti-Steroidogenic Factor 1/SF-1 antibody (ab65815) at 1/900 dilution

**Lane 1** : Canine adrenocortical tumour whole cell lysate with ECL Blocking Solution as blocking agent for 1 hour(s) and 0 minute(s) · Concentration: 4%

**Lane 2** : canine normal adrenal whole cell lysate with ECL Blocking Solution as blocking agent for 1 hour(s) and 0 minute(s) · Concentration: 4%

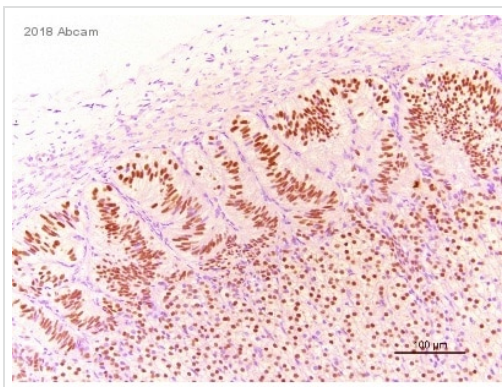
**Lane 3** : H295R whole cell lysate with ECL Blocking Solution as blocking agent for 1 hour(s) and 0 minute(s) · Concentration: 4%

### Secondary

**All lanes** : Goat anti-Rabbit IgG, at 1/20000 dilution

Developed using the ECL technique.

**Predicted band size:** 52 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Steroidogenic Factor 1/SF-1 antibody (ab65815)

Image courtesy of Karin Sanders by Abreview.

Formalin-fixed, paraffin-embedded dog adrenal cortex tissue stained for Steroidogenic Factor 1/SF-1 using ab65815 at 1/300 dilution in immunohistochemical analysis.

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

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