abcam

Product datasheet

Anti-Steroidogenic Factor 1/SF-1 antibody [EPR11695(B)] ab168380

Recombinant RabMAb

7 References 3 Images

Overview

Product name	Anti-Steroidogenic Factor 1/SF-1 antibody [EPR11695(B)]
Description	Rabbit monoclonal [EPR11695(B)] to Steroidogenic Factor 1/SF-1
Host species	Rabbit
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt,ICC/IF,IHC-P or IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human Steroidogenic Factor 1/SF-1. Database link: **Q13285**
Positive control	Rat and mouse brain, Jurkat and HepG2 whole cell lysate (**ab7900**).
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 **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR11695(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab168380 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		1/1000 - 1/10000. Predicted molecular weight: 52 kDa.

Application notes Is unsuitable for Flow Cyt,ICC/IF,IHC-P or IP.

Target

Function 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 avtivity. Binds phosphatidylcholine (By similarity). Binds phospholipids with a phosphatidylinositol (PI) headgroup, in particular PI(3,4)P2 and PI(3,4,5)P3.

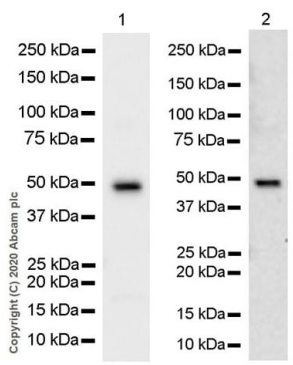
Involvement in disease Defects in NR5A1 are a cause of 46,XY disorder of sex development (46,XY DSD) [MIM:612965]; also known as XY sex reversal with or without adrenal failure. A congenital condition in which development of chromosomal, gonadal, or antomic sex is atypical. 46,XY DSD is a disorder of 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



Western blot - Anti-Steroidogenic Factor 1/SF-1 antibody [EPR11695(B)] (ab168380)

All lanes : Anti-Steroidogenic Factor 1/SF-1 antibody [EPR11695(B)] (ab168380) at 1/1000 dilution

Lane 1 : Mouse brain tissue lysate

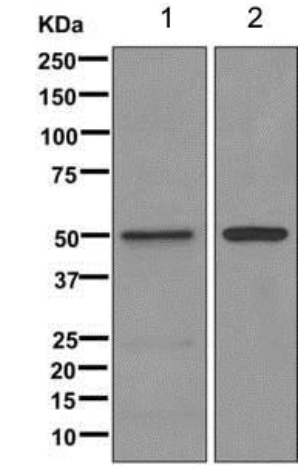
Lane 2 : Rat brain tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/50000 dilution

Predicted band size: 52 kDa



Western blot - Anti-Steroidogenic Factor 1/SF-1 antibody [EPR11695(B)] (ab168380)

All lanes : Anti-Steroidogenic Factor 1/SF-1 antibody [EPR11695(B)] (ab168380) at 1/1000 dilution

Lane 1 : Jurkat cell lysate

Lane 2 : HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 52 kDa

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