

## Allgemeine Informationen

Katalog-Nr.:  
18658-1-AP

Größe:  
150ul, Konzentration: 500 µg/ml von  
Nanodrop und 300 µg/ml durch die  
Bradford-Methode mit BSA als  
Standard;

Wirt:  
Kaninchen

Isotyp:  
IgG

Immunogen Katalognummer:  
AG13252

GenBank-Zugangsnummer:  
BC032501

GeneID (NCBI):  
2516

Vollständiger Name:  
nuclear receptor subfamily 5, group A,  
member 1

Berechnete Masse:  
52 kDa

Beobachtete Masse:  
52 kDa

Reinigungsmethode:

Antigen-Affinitätsreinigung

Empfohlene Verdünnungen:

WB 1:500-1:1000  
IP 0.5-4.0 µg für IP und 1:200-1:1000  
für WB  
IHC 1:50-1:500

## Anwendungen

Geprüfte Anwendungen:

FC, IHC, IP, WB, ELISA

In Publikationen genannte Anwendungen:

IF, IHC, WB

Getestete Reaktivität:

Human, Maus, Ratte

Zitierte Arten:

Human, Maus, Ziege, Bisamratte (Ondatra Zibethicus)

**Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

Positivkontrollen:

WB : Maus-Eierstockgewebe, Ratten-Eierstockgewebe

IP : A2780-Zellen,

IHC : humanes Eierstockgewebe, humanes  
Lebergewebe, Rattenhodengewebe

## Hintergrundinformationen

Steroidogenic factor-1 (SF-1, STF-1), also known as NR5A1, regulates multiple genes involved in the adrenal and gonadal development and in the biosynthesis of a variety of hormones, including adrenal and gonadal steroids, anti-Müllerian hormone (AMH), and gonadotropins. SF-1 belongs to the fushi tarazu factor-1 (FTZ-F1) subfamily of orphan nuclear receptors. Initially identified as a tissue-specific transcriptional regulator of cytochrome P450 steroid hydroxylases, research studies of both global and tissue-specific knockout mice have demonstrated that SF-1 is required for the development of adrenal glands, gonads, ventromedial hypothalamus, and for the proper functioning of pituitary gonadotropes. Indeed, humans with mutations that render SF-1 transcriptionally inactive can present with testicular failure, ovarian failure, and adrenal insufficiency. Furthermore, dysregulation of SF-1 has been linked to diseases such as endometriosis and adrenocortical carcinoma. Like other nuclear hormone receptors, SF-1 has a modular domain structure composed of an N-terminal zinc finger DNA-binding domain, a ligand-binding domain, a C-terminal AF-2 activation domain, and a hinge region with AF-1-like activation activity. SF-1 also contains a fushi tarazu factor 1 box, which functions as an accessory DNA binding domain. SF-1 is primarily phosphorylated at Ser203, which is thought to enhance its transcriptional activity by promoting complex formation with transcriptional cofactors. In addition to phosphorylation at Ser203, SF-1 is subject to SUMO conjugation and acetylation at ε-amino groups of target lysine residues. Whereas SUMOylation represses SF-1 function, acetylation enhances its transcriptional activity. In the adult ovary, SF-1 localizes to theca/interstitial cells.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Wenqian Xie	32991988	J Steroid Biochem Mol Biol	IHC
Haibo Zhang	34671938	Reprod Sci	IHC
Jianlin Liang	31710289	Elife	IF

## Lagerung

Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

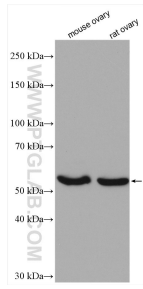
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

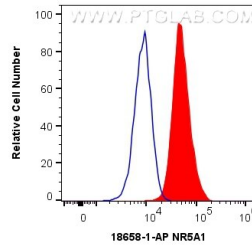
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

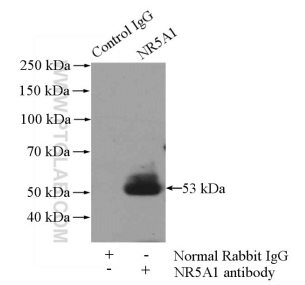
## Ausgewählte Validierungsdaten



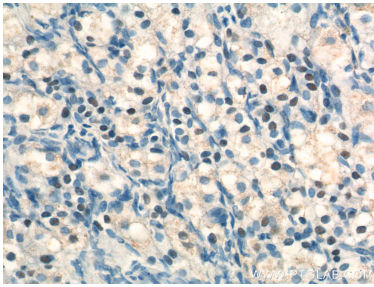
Various lysates were subjected to SDS PAGE followed by western blot with 18658-1-AP (NR5A1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.4  $\mu$ g Anti-Human NR5A1 (18658-1-AP) and CoraLite<sup>®</sup>488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4  $\mu$ g Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



IP Result of anti-NR5A1 (IP:18658-1-AP, 4 $\mu$ g; Detection:18658-1-AP 1:300) with A2780 cells lysate 960 $\mu$ g.



Immunohistochemical analysis of paraffin-embedded human ovary tissue slide using 18658-1-AP (NR5A1 Antibody) at dilution of 1:100 (under 40x lens).