

## SF1 polyclonal antibody

Catalog: GCP59

Host: Rabbit

Reactivity: Human

### BackGround:

The orphan nuclear receptor, steroidogenic factor 1 (STF-1, also called Ad4BP), is encoded by the NR5A1 gene and plays an instrumental role in directing the transcriptional control of steroidogenesis. 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 STF-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 STF-1 transcriptionally inactive can present with testicular failure, ovarian failure, and adrenal insufficiency. Furthermore, dysregulation of STF-1 has been linked to diseases such as endometriosis and adrenocortical carcinoma. Like other nuclear hormone receptors, STF-1 has a modular domain structure composed of an amino-terminal zinc finger DNA-binding domain, a ligand-binding domain, a carboxy-terminal AF-2 activation domain, and a hinge region with AF-1-like activation activity. STF-1 also contains a fushi tarazu factor 1 box, which functions as an accessory DNA binding domain. STF-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, STF-1 is subject to SUMO conjugation and acetylation at  $\epsilon$ -amino groups of target lysine residues. Whereas SUMOylation represses STF-1 function, acetylation enhances its transcriptional activity.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 48 kDa

### Swiss-Prot:

Q13285

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

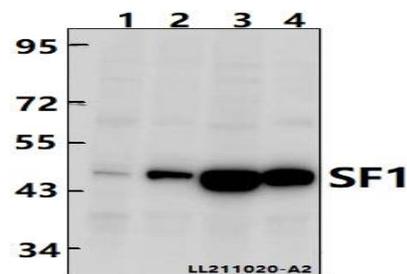
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

SF1 polyclonal antibody detects endogenous levels of SF1 protein.

### DATA:



Western blot (WB) analysis of SF1 polyclonal antibody at 1:1000 dilution

Lane1:Hela whole cell lysate(40ug)

Lane2:HepG2 whole cell lysate(40ug)

Lane3:HEK293T whole cell lysate(40ug)

Lane4:U-87MG whole cell lysate(40ug)

### Note:

For research use only, not for use in diagnostic procedure.

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