

NR5A1 / SF1 Antibody (Internal)

Rabbit Polyclonal Antibody Catalog # ALS10551

Specification

NR5A1 / SF1 Antibody (Internal) - Product Information

Application IHC
Primary Accession O13285
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 52kDa KDa

NR5A1 / SF1 Antibody (Internal) - Additional Information

Gene ID 2516

Other Names

Steroidogenic factor 1, SF-1, STF-1, Adrenal 4-binding protein, Fushi tarazu factor homolog 1, Nuclear receptor subfamily 5 group A member 1, Steroid hormone receptor Ad4BP, NR5A1, AD4BP, FTZF1, SF1

Target/Specificity

Human NR5A1. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

NR5A1 / SF1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

NR5A1 / SF1 Antibody (Internal) - Protein Information

Name NR5A1

Synonyms AD4BP, FTZF1, SF1

Function

Transcriptional activator. Essential for sexual differentiation and formation of the primary steroidogenic tissues (PubMed:27378692). 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 (PubMed:27378692). 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. Activated by the phosphorylation of NR5A1 by HIPK3 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation.

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00407, ECO:0000269|PubMed:11479297, ECO:0000269|PubMed:27490115}

Tissue Location

High expressed in the adrenal cortex, the ovary, the testis, and the spleen (PubMed:9177385)

Volume

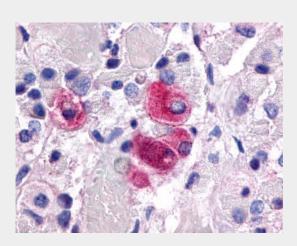
50 µl

NR5A1 / SF1 Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

NR5A1 / SF1 Antibody (Internal) - Images



Anti-NR5A1 antibody ALS10551 IHC of human brain, pituitary.

NR5A1 / SF1 Antibody (Internal) - Background

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,







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NR5A1 / SF1 Antibody (Internal) - References

Santa Barbara P., et al. Submitted (APR-1997) to the EMBL/GenBank/DDBJ databases. Oba K., et al. Biochem. Biophys. Res. Commun. 226:261-267(1996). Humphray S.J., et al. Nature 429:369-374(2004). Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases. Yeh J.R., et al. Submitted (JUL-1995) to the EMBL/GenBank/DDBJ databases.