

NR5A1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP5106a**Specification****NR5A1 Antibody (N-term) Blocking Peptide -
Product Information**Primary Accession [Q13285](#)**NR5A1 Antibody (N-term) Blocking Peptide -
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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**NR5A1 Antibody (N-term) Blocking Peptide -
Protein Information**

Name NR5A1

Synonyms AD4BP, FTZF1, SF1

Function

Transcriptional activator. Essential for sexual differentiation and formation of the primary steroidogenic tissues (PubMed:27378692).

NR5A1 Antibody (N-term) Blocking Peptide - Background

NR5A1 is a transcriptional activator involved in sex determination. The encoded protein binds DNA as a monomer. Defects in this protein are a cause of XY sex reversal with or without adrenal failure as well as adrenocortical insufficiency without ovarian defect.

NR5A1 Antibody (N-term) Blocking Peptide - References

Almeida, M.Q., et al. J. Clin. Endocrinol. Metab. 95(3):1458-1462(2010) Ramayya, M.S., et al. J. Steroid Biochem. Mol. Biol. 119 (1-2), 14-25 (2010) Catalano, S., et al. J. Biol. Chem. 285(8):5581-5593(2010)

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)

NR5A1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)