

Rabbit NR5A1 Polyclonal Antibody | anti-NR5A1 antibody

NR5A1 Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285979	Rabbit	Human Predicted Reactivity: Bovine, Mouse, Pig, Rat	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

NR5A1; Polyclonal Antibody; NR5A1 Antibody (N-term); 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; AD4BP; FTZF1; SF1; anti-NR5A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted Reactivity: Bovine, Mouse, Pig, Rat
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This NR5A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 64-93 amino acids from the N-terminal region of human NR5A1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	64-93
Sequence Length	461
Applicable Applications for anti-NR5A1 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Tissue Location	Tissue Location
Cellular Location	Nucleus - {ECO:0000255 PROSITE-ProRule:PRU00407, ECO:0000269 PubMed:11479297, ECO:0000269 PubMed:27490115}
Antigen Source	HUMAN
Function	Transcriptional activator. Essential for sexual differentiation and formation of the primary steroidogenic tissues (PubMed:). 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:). 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.
Preparation and Storage	Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots. Avoid repeated freeze/thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)
NR5A1 Antibody (N-term) (AAA285979) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
NR5A1 Antibody (N-term) (AAA285979) IHC analysis in formalin fixed and paraffin embedded human spleen tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the NR5A1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of NR5A1 Antibody (N-term) (AAA285979) in HepG2 cell line lysates (35ug/lane).NR5A1 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-NR5A1 antibody	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.
Product Categories/Family for anti-NR5A1 antibody	Developmental Biology
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	20070193
NCBI GeneID	2516
NCBI Accession #	NP_004950.2
NCBI GenBank Nucleotide #	NM_004959.4
UniProt Accession #	Q13285 ; O15196 ; Q5T6F5
Molecular Weight	51636
NCBI Official Full Name	steroidogenic factor 1
NCBI Official Synonym Full Names	nuclear receptor subfamily 5, group A, member 1
NCBI Official Symbol	NR5A1
NCBI Official Synonym Symbols	ELP; SF1; FTZ1; POF7; SF-1; AD4BP; FTZF1; SPGF8; SRXY3
NCBI Protein Information	steroidogenic factor 1
UniProt Protein Name	Steroidogenic factor 1
UniProt Gene Name	NR5A1
UniProt Synonym Gene Names	AD4BP; FTZF1; SF1; SF-1; STF-1
UniProt Entry Name	STF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nr5a1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/285979>