

Rabbit NR6A1 / GCNF Polyclonal Antibody | anti-NR6A1 antibody

Rabbit Polyclonal to Human NR6A1 / GCNF

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA12361	Rabbit	Human, Monkey, Mouse, Rat, Bat, Bovine, Dog, Hamster, Horse, Pig, Rabbit	Immunohistochemistry

PRODUCT SYNONYMS

NR6A1 / GCNF; Polyclonal Antibody; Rabbit Polyclonal to Human NR6A1 / GCNF; NR6A1 Antibody; Germ cell nuclear factor Antibody; HGCNF Antibody; NR61 Antibody; HRTR Antibody; RTR Antibody; Ncnf Antibody; GCNF Antibody; GCNF1 Antibody; anti-NR6A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey, Mouse, Rat, Bat, Bovine, Dog, Hamster, Horse, Pig, Rabbit
Clonality	Polyclonal
Specificity	Human NR6A1 / GCNF. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Purity/Purification	Immunoaffinity Purified
Form/Format	PBS, 0.1% sodium azide.
Concentration	1 mg/ml (varies by lot)
Sequence Length	480
Applicable Applications for anti-NR6A1 antibody	IHC (Immunohistochemistry)
Application Notes	IHC-P (10 ug/ml) Optimal dilution to be determined by the researcher.
Target	NR6A1/GCNF
Target Species	Nuclear receptor subfamily 6, group A, member 1 (NR6A1)
Immunogen Description	Synthetic 18 amino acid peptide from ligand-binding domain of human NR6A1 / GCNF.
Family/Subfamily	NHR/ NR6 Germ cell nuclear factor-like)
Immunogen Species	NR6A1/GCNF antibody was raised against Human.
Immunogen Type	Synthetic peptide
Immunogen	NR6A1 / GCNF antibody was raised against synthetic 18 amino acid peptide from ligand-binding domain of human NR6A1/GCNF. Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Hamster, Elephant, Panda, Dog, Bat, Bovine, Horse, Rabbit, Pig (100%); Platypus (89%); Turkey, Chicken (83%).
Epitope	Ligand-binding Domain
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol

The following protocol is a recommendation only, and AAA Biotech, Inc. makes no guarantee of the results:

Tissue Preparation:

Formalin fixation and embedding in paraffin wax.

Tissue Sectioning:

Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C.

Deparaffinization:

Wash dry slides in 3 changes of xylene - 5 minutes each @ RT

Rehydration:

Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT

Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT

Wash slides in 1 change of 80% alcohol - 3 minutes @ RT

Rinse slides in gentle running distilled water - 5 minutes @ RT

Antigen retrieval:

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) -1 minute @ RT

Immunostaining:

(Do not allow tissues to dry at any time during the staining procedure)

Apply a universal protein block - 20 minutes @ RT

Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT

Rinse slides in 1 X TBST - 1 minute @ RT

Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT

Rinse slides in 1X TBST -1 minute @ RT

Apply alkaline phosphatase streptavidin - 30 minutes @ RT

Rinse slides in 1X TBST -1 minute @ RT

Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT

Wash slides in distilled water - 1 minute @ RT

Dehydrate:

(This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB)

Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT

Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT

Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT

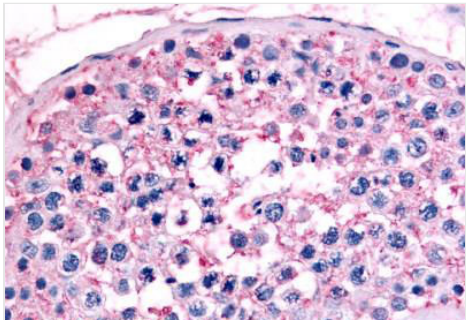
Wash slides in 3 changes of xylene - 1 minute each @ RT

Apply coverslip

Preparation and Storage

Upon arrival: Aliquot and store undilute at -20 degree C or below for up to 1 year. can be stored undiluted at 4 degree C for up to 1 month. Aovid freeze thaw cycles.

IMAGES



IHC (Immunohistochemistry)
Anti-NR6A1 / GCNF antibody IHC of human testis. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

ADDITIONAL INFORMATION

Related Product Information for anti-NR6A1 antibody	Germ cell nuclear factor (GCNF), a NR6 Germ Cell Nuclear Factor-Like Receptor, has been shown to affect gene expression in embryogenesis and spermatogenesis and is essential for embryonic survival and normal development. Loss of GCNF causes embryonic lethality and disrupts normal somitogenesis as well as neural-tube and axis formation. GCNF binds as a homodimer to the DR0 DNA response element and has been shown to regulate transcription of genes including protamines1 and 2 and Oct4. GCNF's repression function has been shown to be mediated by interaction with the co-repressors N-COR and SMRT in the absence of ligand. Three protein isoforms, GCNF-1, GCNF-2a, and GCNF-2b, have been documented in humans, and they are generated by differential usage of alternative splice acceptor sites of the fourth and seventh exons. GCNF-1, the longest isoform, has a distinct 5' UTR and contains 4 and 26 additional amino acids than the other two forms, respectively.
Product Categories/Family for anti-NR6A1 antibody	Family: NHR; Subfamily: NR6 Germ cell nuclear factor-like

NCBI AND UNIPROT INFORMATION

NCBI GI #	53729325
NCBI GeneID	2649
NCBI Accession #	NP_201591.2
NCBI GenBank Nucleotide #	NM_033334.3
UniProt Accession #	Q15406; O00551; O00603; Q5T6F4; Q8NHQ0; Q92898; Q99802
Molecular Weight	53,908 Da
NCBI Official Full Name	nuclear receptor subfamily 6 group A member 1 isoform 1
NCBI Official Synonym Full Names	nuclear receptor subfamily 6, group A, member 1
NCBI Official Symbol	NR6A1
NCBI Official Synonym Symbols	RTR; GCNF; NR61; hRTR; CT150; GCNF1; hGCNF
NCBI Protein Information	nuclear receptor subfamily 6 group A member 1; germ cell nuclear factor variant 1; retinoid receptor-related testis-specific receptor; retinoic acid receptor-related testis-associated receptor
UniProt Protein Name	Nuclear receptor subfamily 6 group A member 1
UniProt Gene Name	NR6A1
UniProt Synonym Gene Names	GCNF; GCNF; hGCNF; RTR; hRTR
UniProt Entry Name	NR6A1_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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