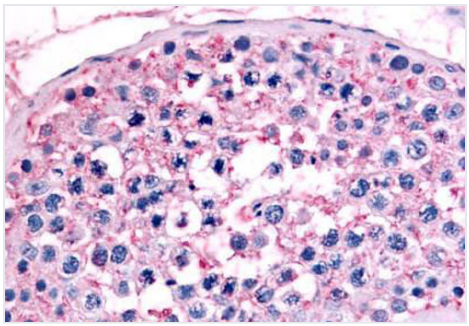
NR6A1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NR6A1 / GCNF, Polyclonal Antibody
Full Product Name	Rabbit Polyclonal to Human NR6A1 / GCNF
Product Gene Name	anti-NR6A1 antibody
Product Synonym Gene Name	GCNF
Product Synonym Names	NR6A1 Antibody, Germ cell nuclear factor Antibody, HGCNF Antibody, NR61 Antibody, HRTR Antibody, RTR Antibody, Ncnf Antibody, GCNF Antibody, GCNF1 Antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Monkey, Mouse, Rat, Bat, Bovine, Dog, Hamster, Horse, Pig, Rabbit
Form/Format	PBS, 0.1% sodium azide.
Purity/Purification	Immunoaffinity Purified
Concentration	1 mg/ml (lot specific)
Specificity	Human NR6A1 / GCNF. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Preparation and Storage	Upon arrival: Aliquot and store undilute at -20 degree C or below for up to 1 year. can be stored undilted at 4 degree C for up to 1 month. Aovid freeze thaw cycles.
Molecular Weight	53,908 Da
OMIM	602778
3D Structure	ModBase 3D Structure for Q15406
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 rasied agianst 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 MyBioSource, 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
Product Categories/Family for anti-NR6A1 antibody	Family: NHR; Subfamily: NR6 Germ cell nuclear factor-like
Applications Tested/Suitable for anti-NR6A1 antibody	IHC - Paraffin
Application Notes for anti-NR6A1 antibody	IHC-P (10 ug/ml) Optimal dilution to be determined by the researcher.
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.
Other Notes	Small volumes of anti-NR6A1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for NR6A1 purchase	MBS246731 is an antibody targeting NR6A1. Also known as Rabbit Polyclonal to Human NR6A1 / GCNF. Reactive in Human, Monkey, Mouse, Rat, Bat, Bovine, Dog, Hamster, Horse, Pig, Rabbit. Host: Rabbit.



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

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NR6A1. It may not necessarily be applicable to this product.

NCBI GI #	53729325
NCBI GeneID	2649
NCBI Accession #	NP_201591.2
UniProt Primary Accession #	Q15406
UniProt Secondary Accession #	O00551; O00603; Q5T6F4; Q8NHQ0; Q92898; Q99802
UniProt Related Accession #	Q15406
GenBank Nucleotide #	NM_033334.3
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
UniProt Protein Name	Nuclear receptor subfamily 6 group A member 1
UniProt Synonym Protein Names	Germ cell nuclear factor; GCNF; hGCNF; Retinoid receptor-related testis-specific receptor; RTR; hRTR
Protein Family	Nuclear receptor subfamily
UniProt Gene Name	NR6A1
UniProt Synonym Gene Names	GCNF; GCNF; hGCNF; RTR; hRTR
UniProt Entry Name	NR6A1_HUMAN
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
NCBI Summary for NR6A1	This gene encodes an orphan nuclear receptor which is a member of the nuclear hormone receptor family. Its expression pattern suggests that it may be involved in neurogenesis and germ cell development. The protein can homodimerize and bind DNA, but in vivo targets have not been identified. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Jun 2013]

UniProt Comments for NR6A1	NR6A1: Orphan nuclear receptor. Binds to a response element containing the sequence 5'-TCAAGGTCA-3'. May be involved in the regulation of gene expression in germ cell development during gametogenesis. Homodimer. Interacts with UIMC1. Shows highest expression in the germ cells of the adult testis. Belongs to the nuclear hormone receptor family. NR6 subfamily. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Nuclear receptor; DNA-binding Chromosomal Location of Human Ortholog: 9q33.3 Cellular Component: nucleoplasm; transcription factor complex Molecular Function: ligand-dependent nuclear receptor activity; protein homodimerization activity; DNA binding; zinc ion binding; sequence-specific DNA binding; steroid hormone receptor activity Biological Process: cell proliferation; transcription initiation from RNA polymerase II promoter; intracellular receptor-mediated signaling pathway; gamete generation; positive regulation of transcription from RNA polymerase II promoter; gene expression; spermatogenesis; steroid hormone mediated signaling; negative regulation of transcription from RNA polymerase II promoter
Research Articles on NR6A1	**1.** Our results show that cellular levels of NR6A1 are correlated with disease progression in prostate cancer.
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