GCNF Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	GCNF, Monoclonal Antibody
Full Product Name	GCNF Conjugated Antibody
Product Gene Name	anti-GCNF antibody
Product Synonym Names	GCNF 1 antibody; GCNF antibody; GCNF1 antibody; Germ cell nuclear factor antibody; hGCNF antibody; hRTR antibody; NR 61 antibody; NR61 antibody; nr6a1 antibody; NR6A1_HUMAN antibody; Nuclear receptor subfamily 6 group A member 1 antibody; Orphan nuclear receptor NR6A1 antibody; Retinoic acid receptor related testis associated receptor antibody; Retinoid receptor related testis specific receptor antibody; Retinoid receptor-related testis-specific receptor antibody; RTR antibody
Clonality	Monoclonal
Host	Mouse
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	53,908 Da
OMIM	602778
3D Structure	ModBase 3D Structure for Q15406
Immunogen	Recombinant protein
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-GCNF antibody	Most Applications
Application Notes for anti-GCNF antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-GCNF antibody	Germ cell nuclear factor (GCNF) is an orphan member of the nuclear receptor gene superfamily that influences neurogenesis and germ cell development. GCNF can homodimerize and bind DNA. GCNF regulates paracrine interaction between the oocyte and somatic cells by regulating the expression of BMP-15 and GDF-9, to affect female fertility. GCNF is present in spermatocytes and round spermatids of adult male mouse testis; northern blot and ribonuclease protection assays have shown GCNF is predominant in the testis. The gene expresses three alternatively spliced transcript variants.
Other Notes	Small volumes of anti-GCNF 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 GCNF purchase	MBS9456445 is an antibody targeting GCNF. Also known as GCNF Conjugated Antibody. Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GCNF. 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 GCNF	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 GCNF	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: DNA-binding; Nuclear receptor 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: transcription initiation from RNA polymerase II promoter; cell proliferation; intracellular receptor-mediated signaling pathway; gamete generation; positive regulation of transcription from RNA polymerase II promoter; steroid hormone mediated signaling; gene expression; spermatogenesis; negative regulation of transcription from RNA polymerase II promoter

Research Articles on GCNF	**1.** Our results show that cellular levels of NR6A1 are correlated with disease progression in prostate cancer.
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