

#5417 Store at -20°C

GCNF Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	50	Rabbit	#Q15406	2649

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	GCNF Antibody detects endogenous levels of total GCNF protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic polypeptide corresponding to residues surrounding Ala349 of human GCNF. Antibodies are purified by Protein A and peptide affinity chromatography.	
Background	GCNF (Germ Cell Nuclear Factor), also known as NR6A1 (Nuclear Receptor Subfamily 6 Group A member), is an orphan member of the nuclear receptor gene superfamily (1). It has been shown to be expressed in the nervous system during development and during specific stages in maturing germ cells of the ovary and testis in the adult, and has probable roles in gametogenesis, neurogenesis, and normal embryonic development during gastrulation (1,2). Inactivation of GCNF in mouse results in abnormal posterior development, impaired midbrain development, insufficient closure of the neural tube, and eventual embryonic death (3). GCNF has been shown to be a repressor of OCT-4 and of the protamine genes (4,5) and plays a critical role in the control of gene expression during embryogenesis and spermatogenesis (2,6).	
Background References	1. Lan, Z.J. et al. (2009) <i>Biol Reprod</i> 80, 905-12. 2. Lei, W. et al. (1997) <i>J Mol Endocrinol</i> 18, 167-76. 3. Chung, A.C. et al. (2001) <i>Mol Cell Biol</i> 21, 663-77. 4. Akamatsu, W. et al. (2009) <i>J Neurosci</i> 29, 2113-24. 5. Hummelke, G.C. and Cooney, A.J. (2004) <i>Mol Reprod Dev</i> 68, 394-407. 6. Lan, Z.J. et al. (2002) <i>J Biol Chem</i> 277, 50660-7.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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