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NR6A1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1742a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	Q15406
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4G8
Isotype	IgG1
Calculated MW	54383
Description	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. The gene expresses at least alternatively spliced transcript variants.
Immunogen	Purified recombinant fragment of human NR6A1 (AA: 65-118) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	2649
Other Names	Nuclear receptor subfamily 6 group A member 1, Germ cell nuclear factor, GCNF, hGCNF, Retinoid receptor-related testis-specific receptor, RTR, hRTR, NR6A1, GCNF
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NR6A1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NR6A1

Synonyms	GCNF {ECO:0000303|PubMed:26769970}
Function	Orphan nuclear receptor that binds to a response element containing the sequence 5'-TCAAGGTCA-3' (PubMed:26769970). Acts as a regulator of embryonic stem cell pluripotency by mediating repression of POU5F1/OCT4: binds to the DR0 element within the POU5F1/OCT4 promoter and inhibits POU5F1/OCT4 expression during embryonic stem cell differentiation (PubMed:26769970). Involved in the regulation of gene expression in germ cell development during gametogenesis (By similarity).
Cellular Location	Nucleus
Tissue Location	Shows highest expression in the germ cells of the adult testis.

References

1.Biochem Biophys Res Commun. 2010 Dec 10;403(2):178-83.2.Cell. 2005 Sep 23;122(6):957-68.

Images

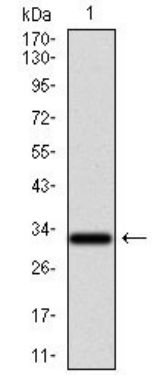


Figure 1: Western blot analysis using NR6A1 mAb against human NR6A1 recombinant protein. (Expected MW is 32.4 kDa)

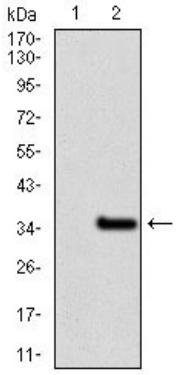


Figure 2: Western blot analysis using NR6A1 mAb against HEK293 (1) and NR6A1 (AA: 65-118)-hIgGFc transfected HEK293 (2) cell lysate.

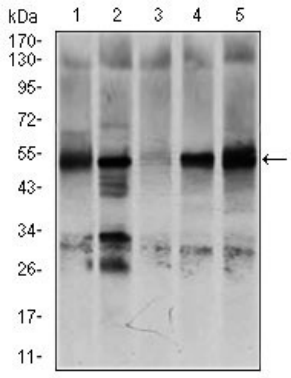
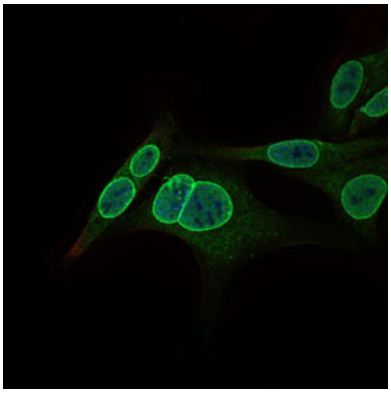


Figure 3: Western blot analysis using NR6A1 mouse mAb against K562 (1), NTERA-2 (2), HEK293 (3), HUVE-12 (4), and HeLa (5) cell lysate.

Figure 4: Immunofluorescence analysis of HepG2 cells using NR6A1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.



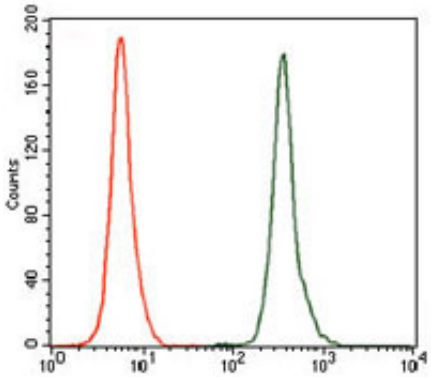


Figure 5: Flow cytometric analysis of K562 cells using NR6A1 mouse mAb (green) and negative control (red).

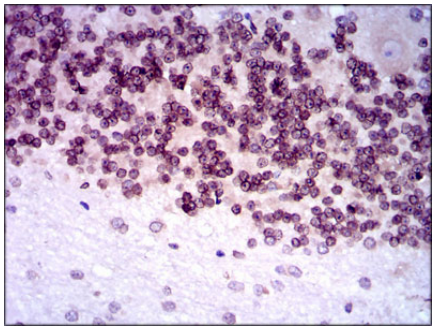


Figure 6: Immunohistochemical analysis of paraffin-embedded cerebellum tissues using NR6A1 mouse mAb with DAB staining.