

#### NR6A1 Antibody

Purified Mouse Monoclonal Antibody Catalog # AO1742a

## Specification

## NR6A1 Antibody - Product Information

Application Primary Accession Reactivity Host Clonality Isotype Calculated MW **Description**  WB, IHC, FC, ICC, E <u>Q15406</u> Human Mouse Monoclonal IgG1 54.3kDa KDa

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

#### NR6A1 Antibody - 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.

#### **NR6A1 Antibody - 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:<a href="http://www.uniprot.org/citations/26769970" target="\_blank">26769970</a>). 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:<a href="http://www.uniprot.org/citations/26769970" target="\_blank">26769970</a>). 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.

## NR6A1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>





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)-hlgGFc 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.





Figure 7: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using NR6A1 mouse mAb with DAB staining.

# NR6A1 Antibody - References

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