

NR4A1 / NUR77 Antibody (Internal)

Rabbit Polyclonal Antibody Catalog # ALS10594

## Specification

# NR4A1 / NUR77 Antibody (Internal) - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW Dilution IHC-P <u>P22736</u> Human, Monkey, Horse Rabbit Polyclonal 64kDa KDa IHC-P~~N/A

## NR4A1 / NUR77 Antibody (Internal) - Additional Information

Gene ID 3164

**Other Names** Nuclear receptor subfamily 4 group A member 1, Early response protein NAK1, Nuclear hormone receptor NUR/77, Nur77, Orphan nuclear receptor HMR, Orphan nuclear receptor TR3, ST-59, Testicular receptor 3, NR4A1, GFRP1, HMR, NAK1

**Target/Specificity** Human NUR77. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

**Reconstitution & Storage** Long term: -70°C; Short term: +4°C

**Precautions** NR4A1 / NUR77 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

## NR4A1 / NUR77 Antibody (Internal) - Protein Information

Name NR4A1

Synonyms GFRP1, HMR, NAK1

Function

Orphan nuclear receptor. Binds the NGFI-B response element (NBRE) 5'-AAAGGTCA-3' (PubMed:<a href="http://www.uniprot.org/citations/18690216" target="\_blank">18690216</a>, PubMed:<a href="http://www.uniprot.org/citations/8121493" target="\_blank">8121493</a>, PubMed:<a href="http://www.uniprot.org/citations/9315652" target="\_blank">9315652</a>). Binds 9-cis-retinoic acid outside of its ligand- binding (NR LBD) domain (PubMed:<a href="http://www.uniprot.org/citations/18690216" target="\_blank">18690216</a>). Participates in energy homeostasis by sequestrating the kinase STK11 in the nucleus, thereby attenuating



cytoplasmic AMPK activation (PubMed:<a href="http://www.uniprot.org/citations/22983157" target="\_blank">22983157</a>). Regulates the inflammatory response in macrophages by regulating metabolic adaptations during inflammation, including repressing the transcription of genes involved in the citric acid cycle (TCA) (By similarity). Inhibits NF-kappa-B signaling by binding to low-affinity NF-kappa-B binding sites, such as at the IL2 promoter (PubMed:<a href="http://www.uniprot.org/citations/15466594" target="\_blank">15466594</a>). May act concomitantly with NR4A2 in regulating the expression of delayed-early genes during liver regeneration (By similarity). Plays a role in the vascular response to injury (By similarity).

#### **Cellular Location**

Nucleus. Cytoplasm, cytosol. Mitochondrion Note=Nuclear export to the cytosol is XPO1-mediated and positively regulated by IFI27 (PubMed:22427340). Translocation to the mitochondrion upon interaction with RXRA and upon the presence of 9-cis retinoic acid (PubMed:17761950).

**Tissue Location** Fetal muscle and adult liver, brain and thyroid.

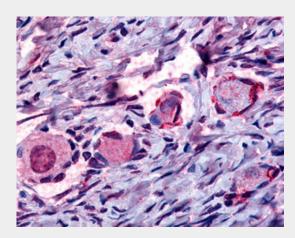
Volume 50 μl

## NR4A1 / NUR77 Antibody (Internal) - Protocols

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

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

### NR4A1 / NUR77 Antibody (Internal) - Images



Anti-NUR77 antibody ALS10594 IHC of human primary follicles.

# NR4A1 / NUR77 Antibody (Internal) - Background

Orphan nuclear receptor. May act concomitantly with NURR1 in regulating the expression of delayed-early genes during liver regeneration. Binds the NGFI-B response element (NBRE) 5'-



AAAAGGTCA-3' (By similarity). May inhibit NF-kappa-B transactivation of IL2. Participates in energy homeostasis by sequestrating the kinase STK11 in the nucleus, thereby attenuating cytoplasmic AMPK activation.

## NR4A1 / NUR77 Antibody (Internal) - References

Nakai A., et al.Mol. Endocrinol. 4:1438-1443(1990). Chang C., et al.J. Steroid Biochem. 34:391-395(1989). Ohkura N., et al.Submitted (MAY-1996) to the EMBL/GenBank/DDBJ databases. Kobayashi T., et al.Submitted (DEC-2008) to the EMBL/GenBank/DDBJ databases. Kaighin V.A., et al.Submitted (DEC-2010) to the EMBL/GenBank/DDBJ databases.