

**NR4A1 / NUR77 Antibody (Internal)**  
**Goat Polyclonal Antibody**  
**Catalog # ALS12272****Specification**

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**NR4A1 / NUR77 Antibody (Internal) - Product Information**

Application	IHC
Primary Accession	<a href="#">P22736</a>
Reactivity	Human, Mouse, Rat, Rabbit, Hamster, Dog, Horse
Host	Goat
Clonality	Polyclonal
Calculated MW	64kDa KDa

**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 NR4A1 / NUR77. This antibody is expected to recognise isoform a (NP\_002126.2 and NP\_775180.1) only.

**Format**

TBS, pH 7.3, 0.02% Sodium Azide, 0.5% BSA

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**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/9315652" target="\_blank">9315652</a>, PubMed:<a href="http://www.uniprot.org/citations/8121493" target="\_blank">8121493</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 sequestering 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**

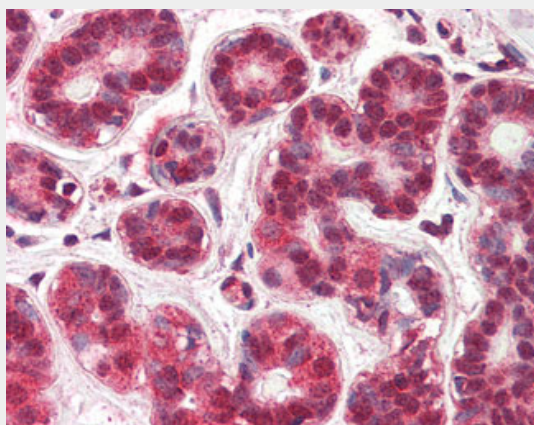
Array

### **NR4A1 / NUR77 Antibody (Internal) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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



Anti-NUR77 antibody IHC of human breast.

### **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 sequestering 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.