

**NUR77 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51399****Specification**

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**NUR77 Antibody - Product Information**

Application	<b>WB, IHC-P, E</b>
Primary Accession	<a href="#">P22736</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>64 KDa</b>

**NUR77 Antibody - 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

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**NUR77 Antibody - Protein Information****Name** NR4A1**Synonyms** GFRP1, HMR, NAK1**Function**

Orphan nuclear receptor. Binds the NGFI-B response element (NBRE) 5'-AAAGGTCA-3' (PubMed: [18690216](http://www.uniprot.org/citations/18690216)), PubMed: [8121493](http://www.uniprot.org/citations/8121493), PubMed: [9315652](http://www.uniprot.org/citations/9315652)). Binds 9-cis-retinoic acid outside of its ligand-binding (NR LBD) domain (PubMed: [18690216](http://www.uniprot.org/citations/18690216)). Participates in energy homeostasis by sequestering the kinase STK11 in the nucleus, thereby attenuating cytoplasmic AMPK activation (PubMed: [22983157](http://www.uniprot.org/citations/22983157)). 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: [15466594](http://www.uniprot.org/citations/15466594)). 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.

### **NUR77 Antibody - 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](#)

### **NUR77 Antibody - Images**

### **NUR77 Antibody - 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.

### **NUR77 Antibody - 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.