

**Anti-NUR77 Antibody**  
**Catalog # ABO10990****Specification**

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**Anti-NUR77 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P22736</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Nuclear receptor subfamily 4 group A member 1(NR4A1) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-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

**Calculated MW**

64463 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Subcellular Localization**

Cytoplasm. Nucleus.

**Tissue Specificity**

Fetal muscle and adult liver, brain and thyroid.

**Protein Name**

Nuclear receptor subfamily 4 group A member 1

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human NUR77(99-112aa ASFKFEDFQVYGCY), identical to the related rat and mouse sequences.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the nuclear hormone receptor family. NR4 subfamily.

**Anti-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: <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 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.

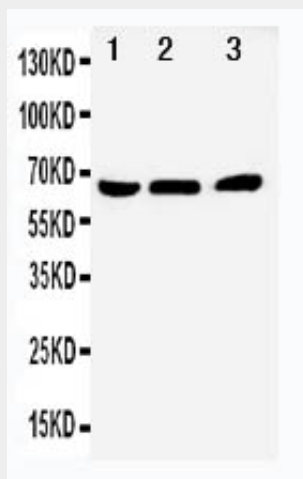
**Anti-NUR77 Antibody - Protocols**

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](#)

#### Anti-NUR77 Antibody - Images



Anti-NUR77 antibody, ABO10990, Western blotting  
Lane 1: A431 Cell Lysate  
Lane 2: HELA Cell Lysate  
Lane 3: JURKAT Cell Lysate

#### Anti-NUR77 Antibody - Background

NR4A1(NUCLEAR RECEPTOR SUBFAMILY 4, GROUP A, MEMBER 1), also called NAK1, GFRP1, TR3, NUR77 or NGFIB, is a protein that in humans is encoded by the NR4A1 gene, which is also a member of the Nur nuclear receptor family of intracellular transcription factors. The NR4A1 gene is mapped on 12q13.13. NR4A1 is involved in cell cycle mediation, inflammation and apoptosis. It plays a key role in mediating inflammatory responses in macrophages. In addition, subcellular localization of the NR4A1 protein appears to play a key role in the survival and death of cells. Nr4a1 was overexpressed in Wnt1 -transformed mouse mammary cells. Nr4a1 was also induced by lithium, a Wnt1 mimic, and the Nr4a1 promoter was activated by lithium and beta-catenin, a Wnt1 downstream effector. In contrast, human NR4A1 was not upregulated by beta-catenin, indicating that this gene is regulated differently in human and mouse cells. Adenoviral expression of Nr4a1 induced genes involved in gluconeogenesis, stimulated glucose production both in vitro and in vivo, and raised blood glucose levels.