

## **NUR77 Antibody**

Rabbit mAb Catalog # AP91320

### **Specification**

# **NUR77 Antibody - Product Information**

Application WB
Primary Accession P22736
Reactivity Rat

Clonality Monoclonal

**Other Names** 

Nur77; Orphan nuclear receptor HMR; Orphan nuclear receptor TR3; ST-59; Testicular receptor 3;

NR4A1; GFRP1; HMR; NAK1;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 64463 Da

# **NUR77 Antibody - Additional Information**

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

NUR77

Description 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.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline,

pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

### **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 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**

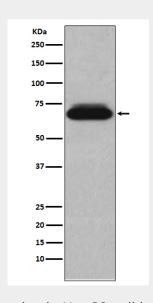
Fetal muscle and adult liver, brain and thyroid.

## **NUR77 Antibody - Protocols**

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

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

#### **NUR77 Antibody - Images**



Western blot analysis of NUR77 expression in HepG2 cell lysate.