

Goat Anti-Nur77 / TR3 (isoform a) Antibody
Peptide-affinity purified goat antibody
Catalog # AF1749a

Specification

Goat Anti-Nur77 / TR3 (isoform a) Antibody - Product Information

Application	WB
Primary Accession	P22736
Other Accession	NP_775180 , 3164 , 15370 (mouse) , 79240 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	64463

Goat Anti-Nur77 / TR3 (isoform a) 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

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-Nur77 / TR3 (isoform a) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Nur77 / TR3 (isoform a) 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, PubMed:<a

[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.

Goat Anti-Nur77 / TR3 (isoform a) 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](#)

Goat Anti-Nur77 / TR3 (isoform a) Antibody - Images



AF1749a (2 µg/ml) staining of Human Thyroid lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-Nur77 / TR3 (isoform a) Antibody - Background

This gene encodes a member of the steroid-thyroid hormone-retinoid receptor superfamily. Expression is induced by phytohemagglutinin in human lymphocytes and by serum stimulation of arrested fibroblasts. The encoded protein acts as a nuclear transcription factor. Translocation of the protein from the nucleus to mitochondria induces apoptosis. Multiple alternatively spliced variants, encoding the same protein, have been identified.

Goat Anti-Nur77 / TR3 (isoform a) Antibody - References

An approach based on a genome-wide association study reveals candidate loci for narcolepsy. Shimada M, et al. *Hum Genet*, 2010 Oct. PMID 20677014.

Replicated association of the NR4A3 gene with smoking behavior in schizophrenia and in bipolar disorder. Novak G, et al. *Genes Brain Behav*, 2010 Jul 24. PMID 20659174.

Deficiency of the NR4A orphan nuclear receptor NOR1 decreases monocyte adhesion and atherosclerosis. Zhao Y, et al. *Circ Res*, 2010 Aug 20. PMID 20558821.

No association between variation in the NR4A1 gene locus and metabolic traits in white subjects at increased risk for type 2 diabetes. Müssig K, et al. *BMC Med Genet*, 2010 Jun 4. PMID 20525362.

Regulation of Nur77 protein turnover through acetylation and deacetylation induced by p300 and HDAC1. Kang SA, et al. *Biochem Pharmacol*, 2010 Sep 15. PMID 20438716.