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NR4A1 / NUR77 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS10594

Specification

NR4A1 / NUR77 Antibody (Internal) - Product Information

Application	**IHC**
Primary Accession	P22736
Reactivity	**Human, Monkey, Horse**
Host	**Rabbit**
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 NUR77. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

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:18690216, PubMed:8121493, PubMed:9315652). Binds 9-cis-retinoic acid outside of its ligand- binding (NR LBD) domain (PubMed:18690216). 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). 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). 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.

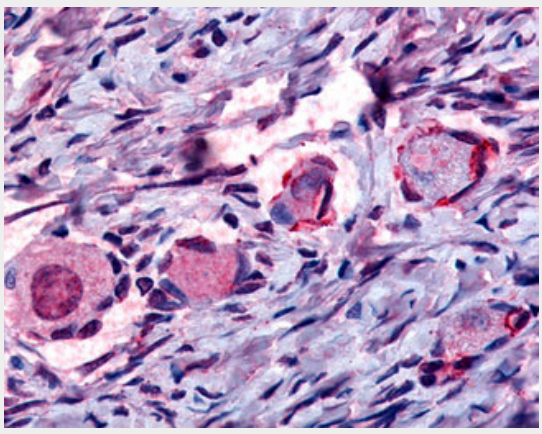
Volume
50 µl

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 Cytomety
- Cell Culture

NR4A1 / NUR77 Antibody (Internal) - Images



Anti-NUR77 antibody ALS10594 IHC of human primary follicles.

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 sequestrating 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.