

NUR77 (NR4A1) Antibody (S351)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP6289c

Product Information

Application	WB, E
Primary Accession	P22736
Other Accession	P22829 , P12813
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB11093
Calculated MW	64463
Antigen Region	329-358

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	This NUR77(NR4A1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 329-358 amino acids from human NUR77(NR4A1).
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NUR77 (NR4A1) Antibody (S351) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NR4A1
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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 sequestering the kinase STK11 in the nucleus, thereby attenuating cytoplasmic AMPK activation (PubMed:[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](#)).

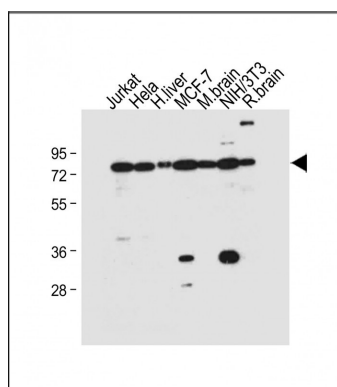
Tissue Location

Fetal muscle and adult liver, brain and thyroid.

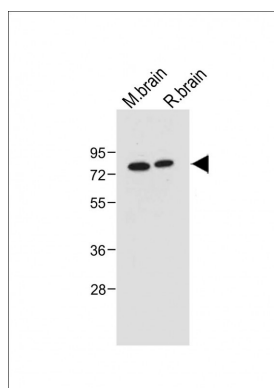
Background

NR4A1 is 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. This protein acts as a nuclear transcription factor. Translocation of the protein from the nucleus to mitochondria induces apoptosis.

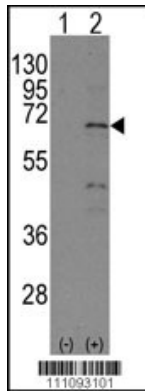
Images



All lanes : Anti-NUR77 (NR4A1) Antibody (S351) at 1:500 dilution Lane 1: Jurkat whole cell lysate Lane 2: Hela whole cell lysate Lane 3: Human liver tissue lysate Lane 4: MCF-7 whole cell lysate Lane 5: Mouse brain tissue lysate Lane 6: NIH/3T3 whole cell lysate Lane 7: Rat brain tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 64 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-NUR77 (NR4A1) Antibody (S351) at 1:500 dilution Lane 1: Mouse brain tissue lysate Lane 2: Rat brain tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 64 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of NR4A1 (arrow) using rabbit polyclonal NR4A1 Antibody (S351) (Cat.#AP6289c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the NR4A1 gene (Lane 2) (Origene Technologies).

Citations

- [Validation of an oligo-gene signature for the prognostic stratification of ductal carcinoma in situ \(DCIS\).](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.