10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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, Bovine, Canine, Rabbit, Chicken
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

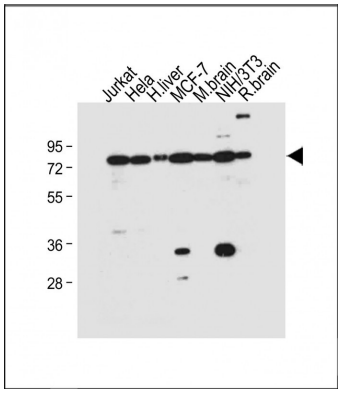
Name	NR4A1

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: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.

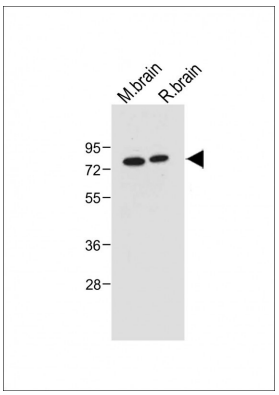
Background

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.

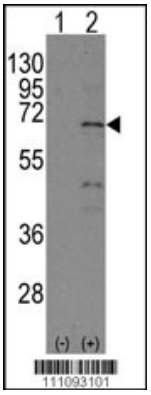
Images



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'.