

# Nuclear Receptor NR4A1 (Phospho-Ser351) Antibody

Catalog # AP68180

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P22736</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	64463

## Additional Information

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<b>Gene ID</b>	3164
<b>Other Names</b>	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)
<b>Dilution</b>	WB~~WB 1:500-2000, ELISA(peptide)1:5000-20000 E~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	NR4A1
<b>Synonyms</b>	GFRP1, HMR, NAK1
<b>Function</b>	Orphan nuclear receptor. Binds the NGFI-B response element (NBRE) 5'-AAAGGTCA-3' (PubMed: <a href="#">18690216</a> , PubMed: <a href="#">8121493</a> , PubMed: <a href="#">9315652</a> ). Binds 9-cis-retinoic acid outside of its ligand- binding (NR LBD) domain (PubMed: <a href="#">18690216</a> ). Participates in energy homeostasis by sequestering the kinase STK11 in the nucleus, thereby attenuating cytoplasmic AMPK activation (PubMed: <a href="#">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="#">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).
<b>Cellular Location</b>	Nucleus. Cytoplasm, cytosol. Mitochondrion Note=Nuclear export to the

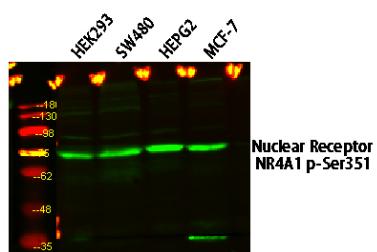
cytosol is XPO1-mediated and positively regulated by IFI27 (PubMed:22427340). Translocation to the mitochondrion upon interaction with RXRA and upon the presence of 9-cis retinoic acid (PubMed:17761950).

<b>Tissue Location</b>	Fetal muscle and adult liver, brain and thyroid.
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## 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 sequestering the kinase STK11 in the nucleus, thereby attenuating cytoplasmic AMPK activation. Plays a role in the vascular response to injury (By similarity).

## Images



Western blot analysis of various lysates, primary antibody was diluted at 1:1000, 4° over night, secondary antibody(cat : RS23920)was diluted at 1:10000, 37° 1hour.

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