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Anti-NUR77 Antibody

Catalog # AP51399

Product Information

Application	WB, IHC
Primary Accession	P22736
Reactivity	Human, Mouse, Rat, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64463

Additional Information

Gene ID	3164
Other Names	GFRP1; HMR; NAK1; 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
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human NUR77. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

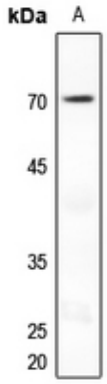
Name	NR4A1
Synonyms	GFRP1, HMR, NAK1
Function	Orphan nuclear receptor. Binds the NGFI-B response element (NBRE) 5'-AAAGGTCA-3' (PubMed:18690216, PubMed:8121493, PubMed:9315652). Binds 9-cis-retinoic acid outside of its ligand- binding (NR LBD) domain (PubMed:18690216). Participates in energy homeostasis 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.

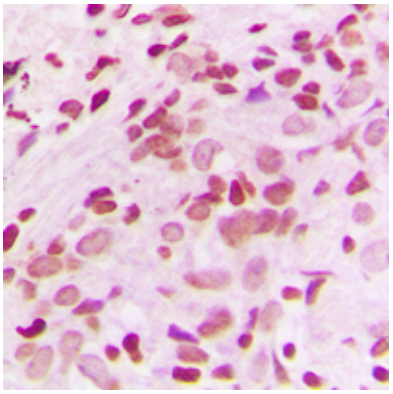
References

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.

Images



Western blot analysis of NUR77 expression in rat muscle (A) whole cell lysates. (Predicted band size: 64 kD; Observed band size: 70 kD)



Immunohistochemical analysis of NUR77 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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