

**DATASHEET**

**NUR77 Rabbit Polyclonal Antibody**

CAT. NO. APA07081

**KEY FEATURES**

|               |   |               |                     |
|---------------|---|---------------|---------------------|
| Target        | NUR77   | Source / Host | Rabbit              |
| Reactivity    | Human, Mouse, Rat, Bovine, Dog  | Clonality     | Polyclonal          |
| Applications  | WB, IHC   | Conjugation   | Unconjugated        |
| Form / Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |               | Storage<br>at -20°C |

**BACKGROUND**

Orphan nuclear receptor. Binds the NGFI-B response element (NBRE) 5'-AAAGGTCA-3' 5'-AAAGGTCA-3' . Binds 9-cis-retinoic acid outside of its ligand-binding (NR LBD) domain . Participates in energy homeostasis by sequestering the kinase STK11 in the nucleus, thereby attenuating cytoplasmic AMPK activation . 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) . Inhibits NF-kappa-B signaling by binding to low-affinity NF-kappa-B binding sites, such as at the IL2 promoter . May act concomitantly with NR4A2 in regulating the expression of delayed-early genes during liver regeneration . Plays a role in the vascular response to injury .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

|     |                |
|-----|----------------|
| WB  | 1:500 - 1:1000 |
| IHC | 1:100 - 1:200  |

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

|                   |   |
|-------------------|---|
| Description       | Rabbit polyclonal antibody to NUR77   |
| Specificity       | Recognizes endogenous levels of NUR77 protein.  |
| Antibody Type     | Primary antibody  |
| Immunogen         | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human NUR77. The exact sequence is proprietary.  |
| Purification      | The antibody was purified by immunogen affinity chromatography.   |
| Molecular Weight  | Predicted: 64 kD; Observed: 70 kD   |
| Form/Buffer       | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.   |
| Alternative Names | GFRP1; HMR; NAK1; Nuclear receptor subfamily 4 group A member 1; Early response protein NAK1; Nuclear hormone receptor NUR77; Nur77; Orphan nuclear receptor HMR; Orphan nuclear receptor TR3; ST-59; Testicular receptor 3 |
| Gene Symbol       | NR4A1   |
| Entrez Gene       | 3164(Human); 15370(Mouse); 79240(Rat)   |
| SwissProt         | P22736(Human); P12813(Mouse); P22829(Rat)   |

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

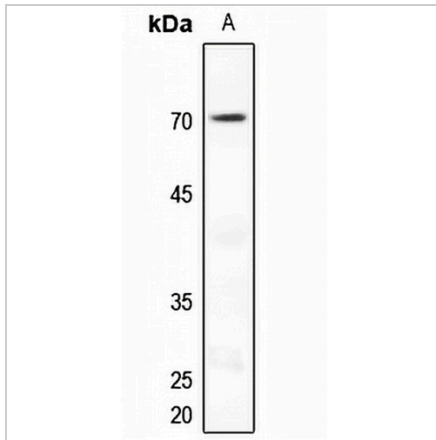
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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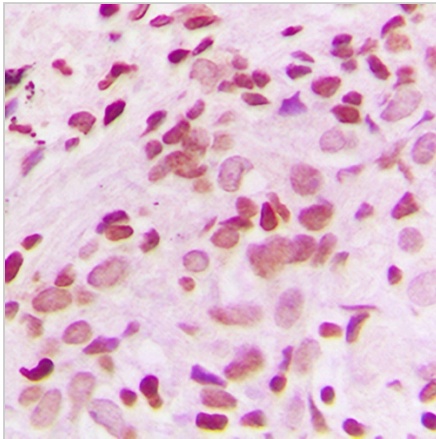
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**DATA**



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.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.