

NRBF2 (N-13): sc-107026

BACKGROUND

Nuclear hormone receptors function as transcriptional activators when their cognate ligands are bound. Binding of the appropriate ligand induces a conformational change in the nuclear receptor, allowing it to interact with transcriptional co-activators. NRBF2 (nuclear receptor-binding factor 2), also known as COPR (comodulator of PPAR and RXR), is thought to act as a transcriptional co-activator by altering the activity of target nuclear receptors. Highly expressed in the liver, placenta and keratinocytes, NRBF2 can interact with at least seven nuclear receptors including PPAR α , PPAR δ and PPAR γ . In the presence of a bound ligand, NRBF2 can interact with nuclear receptors RAR α , RAR γ and RXR α . NRBF2, which exists as two isoforms due to alternative splicing, is localized to both the nucleus and the cytoplasm.

REFERENCES

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2. Yasumo, H., Masuda, N., Furusawa, T., Tsukamoto, T., Sadano, H. and Osumi, T. 2000. Nuclear receptor-binding factor 2 (NRBF2), a possible gene activator protein interacting with nuclear hormone receptors. *Biochim. Biophys. Acta* 1490: 189-197.
3. Ciarlo, J.D., Flores, A.M., McHugh, N.G. and Aneskievich, B.J. 2004. FHL2 expression in keratinocytes and transcriptional effect on PPAR α /RXR α . *J. Dermatol. Sci.* 35: 61-63.
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5. Flores, A.M., Li, L., McHugh, N.G. and Aneskievich, B.J. 2005. Enzyme association with PPAR γ : evidence of a new role for 15-lipoxygenase type 2. *Chem. Biol. Interact.* 151: 121-132.

CHROMOSOMAL LOCATION

Genetic locus: NRBF2 (human) mapping to 10q21.3; Nrbf2 (mouse) mapping to 10 B5.1.

SOURCE

NRBF2 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of NRBF2 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-107026 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

NRBF2 (N-13) is recommended for detection of NRBF2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for NRBF2 siRNA (h): sc-90694, NRBF2 siRNA (m): sc-150062, NRBF2 shRNA Plasmid (h): sc-90694-SH, NRBF2 shRNA Plasmid (m): sc-150062-SH, NRBF2 shRNA (h) Lentiviral Particles: sc-90694-V and NRBF2 shRNA (m) Lentiviral Particles: sc-150062-V.

Molecular Weight (predicted) of NRBF2: 32 kDa.

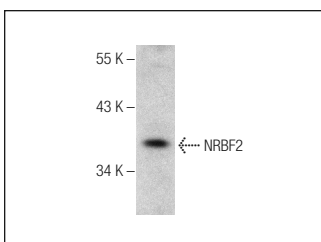
Molecular Weight (observed) of NRBF2: 43 kDa.

Positive Controls: PC-3 nuclear extract: sc-2152.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



NRBF2 (N-13): sc-107026. Western blot analysis of NRBF2 expression in PC-3 nuclear extract.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.