

# NRBF2 (D-3): sc-365213

## 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 $\alpha$ , PPAR $\delta$  and PPAR $\gamma$ . In the presence of a bound ligand, NRBF2 can interact with nuclear receptors RAR $\alpha$ , RAR $\gamma$  and RXR $\alpha$ . NRBF2, which exists as two isoforms due to alternative splicing, is localized to both the nucleus and the cytoplasm.

## CHROMOSOMAL LOCATION

Genetic locus: NRBF2 (human) mapping to 10q21.3; Nrnf2 (mouse) mapping to 10 B5.1.

## SOURCE

NRBF2 (D-3) is a mouse monoclonal antibody raised against amino acids 1-93 mapping at the N-terminus of NRBF2 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG $_1$  kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

NRBF2 (D-3) is available conjugated to agarose (sc-365213 AC), 500  $\mu$ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-365213 HRP), 200  $\mu$ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-365213 PE), fluorescein (sc-365213 FITC), Alexa Fluor<sup>®</sup> 488 (sc-365213 AF488), Alexa Fluor<sup>®</sup> 546 (sc-365213 AF546), Alexa Fluor<sup>®</sup> 594 (sc-365213 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-365213 AF647), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-365213 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-365213 AF790), 200  $\mu$ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

## APPLICATIONS

NRBF2 (D-3) is recommended for detection of NRBF2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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.

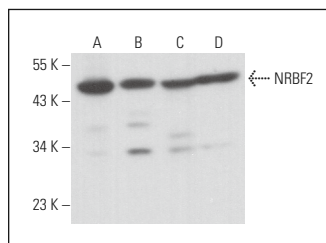
Molecular Weight (observed) of NRBF2: 43 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206, 3611-RF whole cell lysate: sc-2215 or PC-3 nuclear extract: sc-2152.

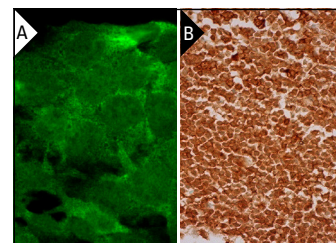
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG $\kappa$  BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

## DATA



NRBF2 (D-3): sc-365213. Western blot analysis of NRBF2 expression in MM-142 (A), MCF7 (B) and 3611-RF (C) whole cell lysates and PC-3 nuclear extract (D).



NRBF2 (D-3): sc-365213. Immunofluorescence staining of formalin-fixed Hep G2 cells showing nuclear and cytoplasmic localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human lymph node tissue showing nuclear and cytoplasmic staining of cells in germinal and non-germinal centers (B).

## SELECT PRODUCT CITATIONS

- Cheng, X., et al. 2017. Pacer mediates the function of class III PI3K and HOPS complexes in autophagosome maturation by engaging Stx17. Mol. Cell 65: 1029-1043.e5.

## STORAGE

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

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

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