

# Nrarp (C-12): sc-515015

## BACKGROUND

Nrarp (NOTCH-regulated ankyrin repeat protein) is a 114 amino acid protein that contains two ANK repeats and is thought to play a role in the formation of somites. The gene encoding Nrarp maps to human chromosome 9, which contains 145 million base pairs and comprises 4% of the human genome, encoding nearly 900 genes. Hereditary hemorrhagic telangiectasia and Familial dysautonomia are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster. Chromosome 9 is partnered with chromosome 22 in translocations that lead to the aberrant production of a Bcr-Abl fusion protein often found in leukemias.

## REFERENCES

- Humphray, S.J., et al. 2004. DNA sequence and analysis of human chromosome 9. *Nature* 429: 369-374.
- Coppo, P., et al. 2006. Bcr-Abl activates Stat3 via JAK and MEK pathways in human cells. *Br. J. Haematol.* 134: 171-179.
- Zheng, X., et al. 2006. Bcr and its mutants, the reciprocal t(9;22)-associated Abl/Bcr fusion proteins, differentially regulate the cytoskeleton and cell motility. *BMC Cancer* 7: 262.
- Burmeister, T., et al. 2007. Atypical Bcr-Abl mRNA transcripts in adult acute lymphoblastic leukemia. *Haematologica* 92: 1699-1702.
- Cottin, V., et al. 2007. Pulmonary vascular manifestations of hereditary hemorrhagic telangiectasia (Rendu-Osler disease). *Respiration* 74: 361-378.
- Fernandez-L, A., et al. 2007. Gene expression fingerprinting for human hereditary hemorrhagic telangiectasia. *Hum. Mol. Genet.* 16: 1515-1533.

## CHROMOSOMAL LOCATION

Genetic locus: NRARP (human) mapping to 9q34.3; Nrarp (mouse) mapping to 2 A3.

## SOURCE

Nrarp (C-12) is a mouse monoclonal antibody raised against amino acids 1-61 mapping at the N-terminus of Nrarp of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Nrarp (C-12) is available conjugated to agarose (sc-515015 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515015 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515015 PE), fluorescein (sc-515015 FITC), Alexa Fluor<sup>®</sup> 488 (sc-515015 AF488), Alexa Fluor<sup>®</sup> 546 (sc-515015 AF546), Alexa Fluor<sup>®</sup> 594 (sc-515015 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-515015 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-515015 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-515015 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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## APPLICATIONS

Nrarp (C-12) is recommended for detection of Nrarp of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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 Nrarp siRNA (h): sc-92560, Nrarp siRNA (m): sc-150061, Nrarp shRNA Plasmid (h): sc-92560-SH, Nrarp shRNA Plasmid (m): sc-150061-SH, Nrarp shRNA (h) Lentiviral Particles: sc-92560-V and Nrarp shRNA (m) Lentiviral Particles: sc-150061-V.

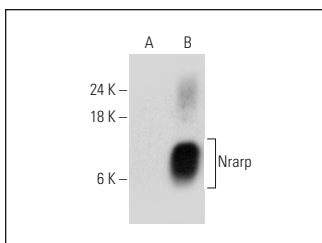
Molecular Weight of Nrarp: 12 kDa.

Positive Controls: Nrarp (m): 293T Lysate: sc-127241.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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-IgGκ BP-FITC: sc-516140 or m-IgGκ 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.

## DATA



Nrarp (C-12): sc-515015. Western blot analysis of Nrarp expression in non-transfected: sc-117752 (A) and mouse Nrarp transfected: sc-127241 (B) 293T whole cell lysates.

## SELECT PRODUCT CITATIONS

- Pinto, I., et al. 2019. Nrarp displays either pro- or anti-tumoral roles in T-cell acute lymphoblastic leukemia depending on Notch and Wnt signaling. *Oncogene*. E-published.

## 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.