

Nore1 (10F10): sc-80017

BACKGROUND

Nore1, also known as RASSF5 (Ras association domain-containing family protein 5), RAPL or Maxp1, is a 418 amino acid protein that exists as four alternatively spliced isoforms which localize to the cytoplasm, as well as to growing microtubules and to the perinuclear region of unstimulated primary T cells. Expressed in a variety of tissues, Nore1 functions as a tumor suppressor that is involved in lymphocyte adhesion, lymphocyte polarization, apoptotic induction and directional movement of endothelial cells during wound healing. Nore1 contains one SARAH domain, one phorbol-ester/DAG-type zinc finger and one Ras-associating domain, through which it interacts with several Ras-like GTPases, proteins that play important roles in cellular growth and tumor transformation.

REFERENCES

1. Yao, R., et al. 2001. Chromosome mapping and sequence variation of the murine Ras effector gene Nore1. *Cytogenet. Cell Genet.* 95: 126-128.
2. Tommasi, S., et al. 2002. RASSF3 and Nore1: identification and cloning of two human homologues of the putative tumor suppressor gene RASSF1. *Oncogene* 21: 2713-2720.
3. Online Mendelian Inheritance in Man, OMIM[™]. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 607020. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. Katagiri, K., et al. 2003. RAPL, a Rap1-binding molecule that mediates Rap1-induced adhesion through spatial regulation of LFA-1. *Nat. Immunol.* 4: 741-748.
5. Praskova, M., et al. 2004. Regulation of the MST1 kinase by autophosphorylation, by the growth inhibitory proteins, RASSF1 and Nore1, and by Ras. *Biochem. J.* 381: 453-462.

CHROMOSOMAL LOCATION

Genetic locus: RASSF5 (human) mapping to 1q32.1.

SOURCE

Nore1 (10F10) is a mouse monoclonal antibody raised against amino acids 119-414 of Nore1 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Nore1 (10F10) is available conjugated to agarose (sc-80017 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-80017 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-80017 PE), fluorescein (sc-80017 FITC), Alexa Fluor[®] 488 (sc-80017 AF488), Alexa Fluor[®] 546 (sc-80017 AF546), Alexa Fluor[®] 594 (sc-80017 AF594) or Alexa Fluor[®] 647 (sc-80017 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-80017 AF680) or Alexa Fluor[®] 790 (sc-80017 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

Nore1 (10F10) is recommended for detection of an epitope corresponding to amino acids 119-190 of Nore1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Nore1 siRNA (h): sc-106788, Nore1 shRNA Plasmid (h): sc-106788-SH and Nore1 shRNA (h) Lentiviral Particles: sc-106788-V.

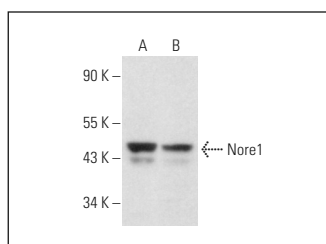
Molecular Weight of Nore1: 47 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201 or HEK293 whole cell lysate: sc-45136.

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[™] Molecular Weight Standards: sc-2035, UltraCruz[®] 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[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA



Nore1 (10F10): sc-80017. Western blot analysis of Nore1 expression in HEK293 (A) and A-431 (B) whole cell lysates.

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 for detailed protocols and support products.