SANTA CRUZ BIOTECHNOLOGY, INC.

NOR-1 (H-7): sc-393902

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Nur77 (also designated NGFI-B), Nurr1 (Nur-related factor 1), and NOR-1 (neuron-derived orphan receptor 1) constitute the NGFI-B subfamily within the nuclear receptor superfamily. Ligands for these protein have not been identified, and, therefore, they are designated "orphan nuclear receptors". Genes of the NGFI-B subfamily are classified as immediate-early genes, which are induced rapidly, but transiently, in response to a variety of stimuli. They have been implicated in cell proliferation, differentiation, and apoptosis. The human NOR-1 gene maps to chromosome 9q22.33, and encodes a protein which is expressed in heart, skeletal muscle, thymus, and spleen as well as in brain, where it is developmentally regulated. There-fore, NOR-1 may be involved in regulating neural differentiation. The NOR-1 gene also undergoes chromosomal translocation with the EWS gene to produce a protein thought to affect pre-mRNA splicing.

CHROMOSOMAL LOCATION

Genetic locus: NR4A3 (human) mapping to 9q22.33; Nr4a3 (mouse) mapping to 4 B1.

SOURCE

NOR-1 (H-7) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 222-259 within an internal region of NOR-1 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-393902 X, 200 µg/0.1 ml.

NOR-1 (H-7) is available conjugated to agarose (sc-393902 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-393902 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393902 PE), fluorescein (sc-393902 FITC), Alexa Fluor® 488 (sc-393902 AF488), Alexa Fluor® 546 (sc-393902 AF546), Alexa Fluor® 594 (sc-393902 AF594) or Alexa Fluor® 647 (sc-393902 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393902 AF680) or Alexa Fluor® 790 (sc-393902 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-393902 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

STORAGE

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

PROTOCOLS

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

APPLICATIONS

NOR-1 (H-7) is recommended for detection of NOR-1 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).

NOR-1 (H-7) is also recommended for detection of NOR-1 in additional species, including porcine.

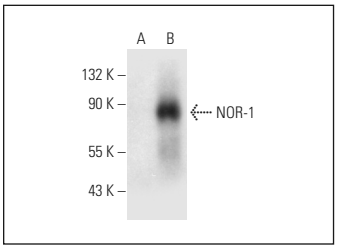
Suitable for use as control antibody for NOR-1 siRNA (h): sc-38842, NOR-1 siRNA (m): sc-38843, NOR-1 shRNA Plasmid (h): sc-38842-SH, NOR-1 shRNA Plasmid (m): sc-38843-SH, NOR-1 shRNA (h) Lentiviral Particles: sc-38842-V and NOR-1 shRNA (m) Lentiviral Particles: sc-38843-V.

NOR-1 (H-7) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

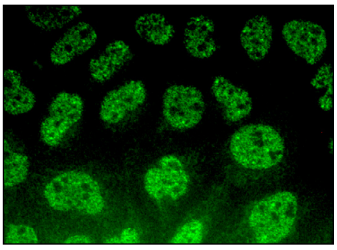
Molecular Weight of NOR-1: 68 kDa.

Positive Controls: NOR-1 (m): 293 Lysate: sc-179018.

DATA



NOR-1 (H-7): sc-393902. Western blot analysis of NOR-1 expression in non-transfected: sc-110760 (**A**) and mouse NOR-1 transfected: sc-179018 (**B**) 293 whole cell lysates.



NOR-1 (H-7): sc-393902. Immunofluorescence staining of formalin-fixed A-431 cells showing nuclear localization.

SELECT PRODUCT CITATIONS

1. Haller, F., et al. 2019. Enhancer hijacking activates oncogenic transcription factor NR4A3 in acinic cell carcinomas of the salivary glands. Nat. Commun. 10: 368.
2. Zhu, N., et al. 2019. Nur77 limits endothelial barrier disruption to LPS in the mouse lung. Am. J. Physiol. Lung Cell Mol. Physiol. E-published.

RESEARCH USE

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