**BACKGROUND**

Nur77 (also designated NGFI-B), Nur1 (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 proteins 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 9q, and encodes a protein which is expressed in heart, skeletal muscle, thymus, and spleen as well as in brain, where it is developmentally regulated. Therefore, 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.

**REFERENCES**


**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, 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 and ELISA; to either phycocyanin (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 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).

**RESEARCH USE**

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

**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.

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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.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG HRP: sc-516102 or m-IgG 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-IgG HRP FITC: sc-516140 or m-IgG HRP PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

**STORAGE**

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

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