NOR-1 (F-10): sc-393903

**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 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. 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 (F-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 227-262 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-393903 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-393903 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.

**APPLICATIONS**

NOR-1 (F-10) 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 (F-10) 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 (F-10) 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, U-698-M whole cell lysate; sc-364799 or rat hippocampus tissue extract.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG 
Peroxidase: sc-24941 or UltraCruz 
Marker): 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).

**DATA**

![Western Blot](image1)

NOR-1 (F-10): sc-393903. Western blot analysis of NOR-1 expression in U-698-M whole cell lysate (A) and rat hippocampus tissue extract (B).

![Western Blot](image2)

NOR-1 (F-10): sc-393903. 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.

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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