

# NURIM (N-13): sc-133262

## BACKGROUND

NURIM, also known as NRM or NRM29, is a 262 amino acid multi-pass membrane protein that localizes to the inner membrane of the nucleus. Existing as multiple alternatively spliced isoforms, NURIM is thought to possess enzymatic functions that may play a role in nuclear envelope (NE) dynamics. The gene encoding NURIM maps to human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, Porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

## REFERENCES

1. Rolls, M.M., et al. 1999. A visual screen of a GFP-fusion library identifies a new type of nuclear envelope membrane protein. *J. Cell Biol.* 146: 29-44.
2. Holmer, L., et al. 2001. Inner nuclear membrane proteins: functions and targeting. *Cell. Mol. Life Sci.* 58: 1741-1747.

## CHROMOSOMAL LOCATION

Genetic locus: NRM (human) mapping to 6p21.33; Nrm (mouse) mapping to 17 B1.

## SOURCE

NURIM (N-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of NURIM of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-133262 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

NURIM (N-13) is recommended for detection of NURIM isoforms 1-5 of mouse, rat and 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)], 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).

NURIM (N-13) is also recommended for detection of NURIM isoforms 1-5 in additional species, including equine and porcine.

Suitable for use as control antibody for NURIM siRNA (h): sc-95631, NURIM siRNA (m): sc-150128, NURIM shRNA Plasmid (h): sc-95631-SH, NURIM shRNA Plasmid (m): sc-150128-SH, NURIM shRNA (h) Lentiviral Particles: sc-95631-V and NURIM shRNA (m) Lentiviral Particles: sc-150128-V.

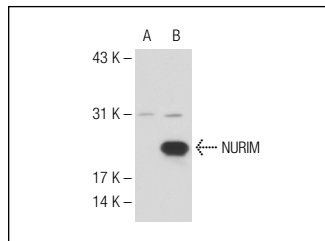
Molecular Weight of NURIM: 30 kDa.

Positive Controls: NURIM (m2): 293T Lysate: sc-122182.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



NURIM (N-13): sc-133262. Western blot analysis of NURIM expression in non-transfected: sc-117752 (A) and mouse NURIM transfected: sc-122182 (B) 293T 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **NURIM (E-11): sc-514010** or **NURIM (B-1): sc-390174**, our highly recommended monoclonal alternatives to NURIM (N-13).