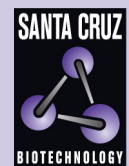


NOMO (G-19): sc-74743



The Power to Question

BACKGROUND

Three highly similar proteins, termed NOMO1, NOMO2 and NOMO3, are encoded by a gene mapping to a region of duplication on the p arm of human chromosome 16. All three NOMO proteins share similar functions and have been difficult to characterize individually. NOMO1 (nodal modulator 1), also known as PM5, is a 1,222 amino acid highly conserved single-pass type I membrane protein expressed in colon tumor tissue and normal colonic mucosa. NOMO proteins are novel antagonists of Nodal signaling which interact with Nicalin to form a Nicalin-NOMO complex, and are rapidly degraded or stabilized by Nicalin. NOMO proteins were once considered candidates for the development of pseudoxanthoma elasticum (PXE), a heritable disorder of connective tissue, as the NOMO genes are located in close proximity to the gene responsible for PXE development (MRP6).

REFERENCES

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3. Perdu, J. and Germain, D.P. 2001. Identification of novel polymorphisms in the pM5 and MRP1 (ABCC1) genes at locus 16p13.1 and exclusion of both genes as responsible for pseudoxanthoma elasticum. *Hum. Mutat.* 17: 74-75.
4. Haffner, C., et al. 2004. Nicalin and its binding partner NOMO are novel Nodal signaling antagonists. *EMBO J.* 23: 3041-3050.
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CHROMOSOMAL LOCATION

Genetic locus: NOMO1/NOMO3 (human) mapping to 16p13.11, NOMO2 (human) mapping to 16p12.3; Nomo1 (mouse) mapping to 7 B4.

SOURCE

NOMO (G-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of NOMO1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-74743 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NOMO (G-19) is recommended for detection of NOMO1 of mouse, rat and human origin, and NOMO2 and NOMO3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

NOMO (G-19) is also recommended for detection of NOMO1, NOMO2 and NOMO3 in additional species, including equine, canine, bovine and porcine.

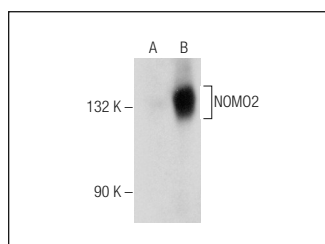
Molecular Weight of NOMO: 130 kDa.

Positive Controls: NOMO2 (h): 293T Lysate: sc-115770.

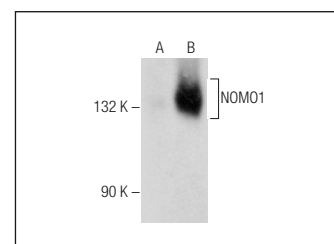
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



NOMO (G-19): sc-74743. Western blot analysis of NOMO2 expression in non-transfected: sc-117752 (A) and human NOMO2 transfected: sc-115770 (B) 293T whole cell lysates.



NOMO (G-19): sc-74743. Western blot analysis of NOMO1 expression in non-transfected: sc-117752 (A) and human NOMO1 transfected: sc-369072 (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.



Try **NOMO (B-10): sc-390565**, our highly recommended monoclonal alternative to NOMO (G-19).