

# NIP30 (V-16): sc-137631

## BACKGROUND

NIP30, also known as NEFA-interacting nuclear protein NIP30, FAM192A (family with sequence similarity 192, member A), CDA10 or CDA018, is a 254 amino acid nuclear protein encoded by a gene that maps to human chromosome 16q13. Chromosome 16 encodes over 900 genes in approximately 90 million base pairs, makes up nearly 3% of human cellular DNA and is associated with a variety of genetic disorders. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, though through the CREBBP gene which encodes a critical CREB binding protein. Signs of Rubinstein-Taybi include mental retardation and predisposition to tumor growth and white blood cell neoplasias. Crohn's disease is a gastrointestinal inflammatory condition associated with chromosome 16 through the NOD2 gene.

## REFERENCES

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- Bomont, P., et al. 2000. The gene encoding gigaxonin, a new member of the cytoskeletal BTB/Kelch repeat family, is mutated in giant axonal neuropathy. *Nat. Genet.* 26: 370-374.
- Kuhlenbäumer, G., et al. 2002. Giant axonal neuropathy (GAN): case report and two novel mutations in the gigaxonin gene. *Neurology* 58: 1273-1276.
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- Abreu, M.T. 2005. Nod2 in normal and abnormal intestinal immune function. *Gastroenterology* 129: 1302-1304.

## CHROMOSOMAL LOCATION

Genetic locus: FAM192A (human) mapping to 16q13; Fam192a (mouse) mapping to 8 C5.

## SOURCE

NIP30 (V-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of NIP30 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-137631 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

NIP30 (V-16) is recommended for detection of NIP30 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

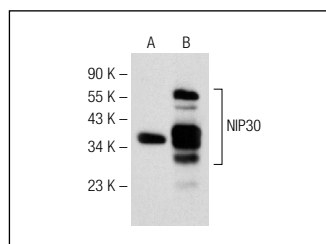
NIP30 (V-16) is also recommended for detection of NIP30 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for NIP30 siRNA (h): sc-93176, NIP30 siRNA (m): sc-108721, NIP30 shRNA Plasmid (h): sc-93176-SH, NIP30 shRNA Plasmid (m): sc-108721-SH, NIP30 shRNA (h) Lentiviral Particles: sc-93176-V and NIP30 shRNA (m) Lentiviral Particles: sc-108721-V.

Molecular Weight of NIP30: 29 kDa.

Positive Controls: NIP30 (h): 293T Lysate: sc-129255, HeLa nuclear extract: sc-2120 or MOLT-4 nuclear extract: sc-2151.

## DATA



NIP30 (V-16): sc-137631. Western blot analysis of NIP30 expression in non-transfected: sc-117752 (A) and human NIP30 transfected: sc-129255 (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.