

# NUBP1 (K-14): sc-160613

## BACKGROUND

NUBP1 (nucleotide binding protein 1), also known as cytosolic Fe-S cluster assembly factor NUBP1 or Nbp35, is a 320 amino acid protein involved in the regulation of centrosome duplication. A member of the Mrp/NBP35 ATP-binding protein family and the NUBP1/NBP35 subfamily, NUBP1 exists as two alternatively spliced isoforms and is known to interact with KIFC1 and NUBP2. NUBP1 is a component of the cytosolic iron-sulfur (Fe/S) protein assembly machinery and can transfer iron-sulfur clusters to certain apoproteins. The gene encoding NUBP1 maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome. 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, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

## 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.
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- Online Mendelian Inheritance in Man, OMIM™. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 600280. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
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## CHROMOSOMAL LOCATION

Genetic locus: NUBP1 (human) mapping to 16p13.13; Nubp1 (mouse) mapping to 16 A1.

## SOURCE

NUBP1 (K-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NUBP1 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-160613 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

NUBP1 (K-14) is recommended for detection of NUBP1 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); non cross-reactive with NUBP2 or NUBPL.

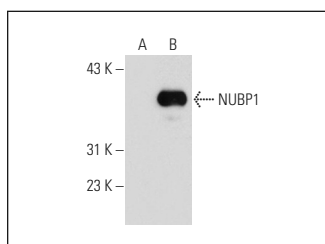
NUBP1 (K-14) is also recommended for detection of NUBP1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for NUBP1 siRNA (h): sc-93202, NUBP1 siRNA (m): sc-150090, NUBP1 shRNA Plasmid (h): sc-93202-SH, NUBP1 shRNA Plasmid (m): sc-150090-SH, NUBP1 shRNA (h) Lentiviral Particles: sc-93202-V and NUBP1 shRNA (m) Lentiviral Particles: sc-150090-V.

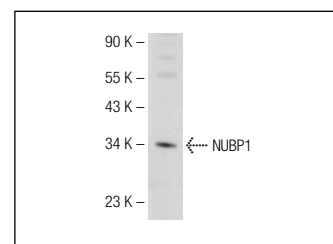
Molecular Weight of NUBP1: 35 kDa.

Positive Controls: NIH/3T3 nuclear extract: sc-2138 or NUBP1 (h): 293T Lysate: sc-111713.

## DATA



NUBP1 (K-14): sc-160613. Western blot analysis of NUBP1 expression in non-transfected: sc-117752 (A) and human NUBP1 transfected: sc-111713 (B) 293T whole cell lysates.



NUBP1 (K-14): sc-160613. Western blot analysis of NUBP1 expression in NIH/3T3 nuclear extract.

## 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.

**MONOS**  
Satisfaction  
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Try **NUBP1 (C-3): sc-398368** or **NUBP1 (C-7): sc-514175**, our highly recommended monoclonal alternatives to NUBP1 (K-14).