

# NUDT6 (C-15): sc-74987

## BACKGROUND

NUDT6 (nudix (nucleoside diphosphate linked moiety X)-type motif 6), also known as antisense basic fibroblast growth factor or GFG-1, is a member of the nudix hydrolase family of pyrophosphatases. Nudix hydrolases contain a characteristic nudix domain and are responsible for catalyzing the hydrolysis of nucleoside diphosphate derivatives. The gene encoding NUDT6 is an FGF-2 gene antisense transcript, and NUDT6 is believed to regulate FGF-2 expression. FGF-2 is a multifunctional heparin-binding growth factor important to angiogenesis, neuroectoderm development and wound healing. NUDT6 is expressed as two isoforms produced by alternative splicing.

## REFERENCES

1. Murphy, P.R. and Knee, R.S. 1994. Identification and characterization of an antisense RNA transcript (gfg) from the human basic fibroblast growth factor gene. *Mol. Endocrinol.* 8: 852-859.
2. Li, A.W., Too, C.K., Knee, R., Wilkinson, M. and Murphy, P.R. 1997. FGF-2 antisense RNA encodes a nuclear protein with MutT-like antimutator activity. *Mol. Cell. Endocrinol.* 133: 177-182.

## CHROMOSOMAL LOCATION

Genetic locus: NUDT6 (human) mapping to 4q28.1; Nudt6 (mouse) mapping to 3 B.

## SOURCE

NUDT6 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of NUDT6 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-74987 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

NUDT6 (C-15) is recommended for detection of NUDT6 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

NUDT6 (C-15) is also recommended for detection of NUDT6 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for NUDT6 siRNA (h): sc-75975, NUDT6 siRNA (m): sc-75976, NUDT6 shRNA Plasmid (h): sc-75975-SH, NUDT6 shRNA Plasmid (m): sc-75976-SH, NUDT6 shRNA (h) Lentiviral Particles: sc-75975-V and NUDT6 shRNA (m) Lentiviral Particles: sc-75976-V.

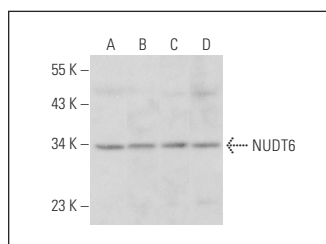
Molecular Weight of NUDT6: 35 kDa.

Positive Controls: ACHN whole cell lysate: sc-364365, Hep G2 cell lysate: sc-2227 or Jurkat whole cell lysate: sc-2204.

## 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) 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



NUDT6 (C-15): sc-74987. Western blot analysis of NUDT6 expression in ACHN (A), NCI-H460 (B), Hep G2 (C) and Jurkat (D) 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.

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Try **NUDT6 (F-2): sc-398717**, our highly recommended monoclonal alternative to NUDT6 (C-15).