SANTA CRUZ BIOTECHNOLOGY, INC.

NUDT6 (H-126): sc-98324

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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 mutifunctional 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., et al. 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., et al. 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 (H-126) is a rabbit polyclonal antibody raised against amino acids 191-316 mapping at 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.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

NUDT6 (H-126) 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), 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).

NUDT6 (H-126) is also recommended for detection of NUDT6 in additional species, including equine, 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.

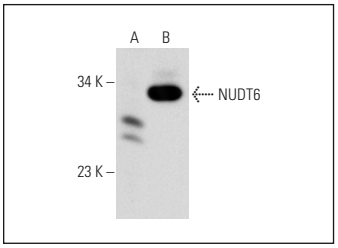
Molecular Weight of NUDT6: 35 kDa.

Positive Controls: NUDT6 (h): 293T Lysate: sc-173806.

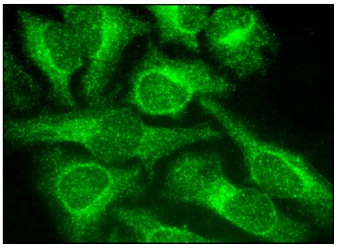
RECOMMENDED SECONDARY REAGENTS

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



NUDT6 (H-126): sc-98324. Western blot analysis of NUDT6 expression in non-transfected: sc-117752 (**A**) and human NUDT6 transfected: sc-173806 (**B**) 293T whole cell lysates.



NUDT6 (H-126): sc-98324. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic and nuclear localization.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.