

Deltex-3 (H-140): sc-135128

BACKGROUND

The Deltex family of proteins (Deltex-1, 2, 3 and 4) are mammalian homologs of *Drosophila* Deltex. This family contains two WWE domains and a C-terminal RING-finger domain, which are regions that are frequently found in E3 ubiquitin ligases. Deltex-3, also known as RNF154 (RING finger protein 154), is a 347 amino acid cytoplasmic protein that acts as both a negative and positive regulator of Notch, depending on the developmental and cell context. Though primarily acting as a homomultimer, Deltex-3 may form a heteromultimer with other Deltex proteins. Like other Deltex family members, Deltex-3 functions as a ubiquitin E3 ligase that shows highest activity in conjunction with the E2 enzyme UBE2D. There are two isoforms of Deltex-3 that are produced as a result of alternative splicing events.

REFERENCES

1. Takeyama, K., et al. 2003. The BAL-binding protein BBAP and related Deltex family members exhibit ubiquitin-protein isopeptide ligase activity. *J. Biol. Chem.* 278: 21930-21937.
2. Blacklow, S.C. 2005. A new niche for Notch on Deltex? *Structure* 13: 1579-1580.

CHROMOSOMAL LOCATION

Genetic locus: DTX3 (human) mapping to 12q13.3; Dtx3 (mouse) mapping to 10 D3.

SOURCE

Deltex-3 (H-140) is a rabbit polyclonal antibody raised against amino acids 1-140 mapping at the N-terminus of Deltex-3 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.

APPLICATIONS

Deltex-3 (H-140) is recommended for detection of Deltex-3 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).

Deltex-3 (H-140) is also recommended for detection of Deltex-3 in additional species, including equine.

Suitable for use as control antibody for Deltex-3 siRNA (h): sc-96143, Deltex-3 siRNA (m): sc-142990, Deltex-3 shRNA Plasmid (h): sc-96143-SH, Deltex-3 shRNA Plasmid (m): sc-142990-SH, Deltex-3 shRNA (h) Lentiviral Particles: sc-96143-V and Deltex-3 shRNA (m) Lentiviral Particles: sc-142990-V.

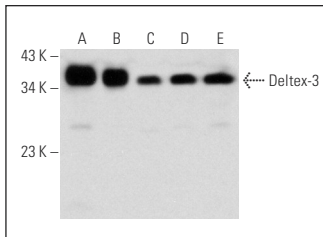
Molecular Weight of Deltex-3: 38 kDa.

Positive Controls: Deltex-3 (m): 293T Lysate: sc-119739, mouse brain extract: sc-2253 or F9 cell lysate: sc-2245.

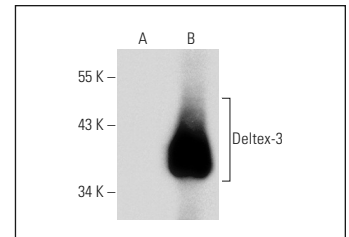
RECOMMENDED SECONDARY REAGENTS

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



Deltex-3 (H-140): sc-135128. Western blot analysis of Deltex-3 expression in mouse embryonic brain (A) and mouse brain (B) tissue extracts and SK-N-MC (C), F9 (D) and NTERA-2 cl.D1 (E) whole cell lysates.



Deltex-3 (H-140): sc-135128. Western blot analysis of Deltex-3 expression in non-transfected: sc-117752 (A) and mouse Deltex-3 transfected: sc-119739 (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 or our catalog for detailed protocols and support products.



Try **Deltex-3 (C-10): sc-376439**, our highly recommended monoclonal alternative to Deltex-3 (H-140).