

Deltex-3 (C-10): sc-376439

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.
3. Chastagner, P., et al. 2006. Itch/AIP4 mediates Deltex degradation through the formation of K29-linked polyubiquitin chains. *EMBO Rep.* 7: 1147-1153.
4. Lehar, S.M. and Bevan, M.J. 2006. T cells develop normally in the absence of both Deltex1 and Deltex2. *Mol. Cell. Biol.* 26: 7358-7371.

CHROMOSOMAL LOCATION

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

SOURCE

Deltex-3 (C-10) is a mouse monoclonal antibody raised against amino acids 1-140 mapping at the N-terminus of Deltex-3 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Deltex-3 (C-10) is available conjugated to agarose (sc-376439 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376439 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376439 PE), fluorescein (sc-376439 FITC), Alexa Fluor[®] 488 (sc-376439 AF488), Alexa Fluor[®] 546 (sc-376439 AF546), Alexa Fluor[®] 594 (sc-376439 AF594) or Alexa Fluor[®] 647 (sc-376439 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-376439 AF680) or Alexa Fluor[®] 790 (sc-376439 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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STORAGE

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

APPLICATIONS

Deltex-3 (C-10) is recommended for detection of Deltex-3 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

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.

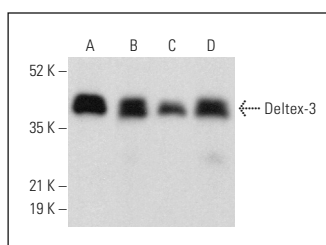
Molecular Weight of Deltex-3: 38 kDa.

Positive Controls: C6 whole cell lysate: sc-364373, IMR-32 cell lysate: sc-2409 or Neuro-2A whole cell lysate: sc-364185.

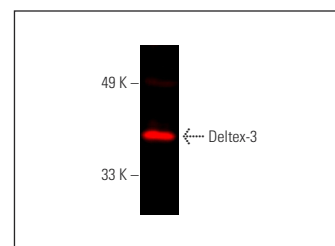
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA



Deltex-3 (C-10): sc-376439. Western blot analysis of Deltex-3 expression in IMR-32 (A), C6 (B) and Neuro-2A (C) whole cell lysates and mouse brain tissue extract (D).



Deltex-3 (C-10): sc-376439. Near-infrared western blot analysis of Deltex-3 expression in IMR-32 whole cell lysate. Blocked with UltraCruz[®] Blocking Reagent: sc-516214. Detection reagent used: m-IgGκ BP-CFL 790: sc-516181.

SELECT PRODUCT CITATIONS

1. Wang, L., et al. 2021. Deltex3 inhibits epithelial mesenchymal transition in papillary thyroid carcinoma via promoting ubiquitination of XRCC5 to regulate the AKT signal pathway. *J. Cancer* 12: 860-873.

RESEARCH USE

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