SANTA CRUZ BIOTECHNOLOGY, INC.

Delta (H-265): sc-9102

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The LIN-12/Notch family of transmembrane receptors is believed to play a central role in development by regulating cell fate decisions. Notch proteins have been found to be overexpressed or rearranged in human tumors. Ligands for Notch include Jagged, Jagged-2 and Delta. While blocking the differentiation of progenitor cells into the B-cell lineage, Delta promotes the emergence of a population of cells with T-cell/NK-cell characteristics. The protein is a membrane protein expressed in heart, pancreas, brain and muscle during gastrulation and early organogenesis and in adult heart and lung.

CHROMOSOMAL LOCATION

Genetic locus: DLL1 (human) mapping to 6q27; Dll1 (mouse) mapping to 17 A2.

SOURCE

Delta (H-265) is a rabbit polyclonal antibody raised against amino acids 459-723 of Delta 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

Delta (H-265) is recommended for detection of Delta 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).

Delta (H-265) is also recommended for detection of Delta in additional species, including equine and canine.

Suitable for use as control antibody for Delta siRNA (h): sc-37200, Delta siRNA (m): sc-37201, Delta shRNA Plasmid (h): sc-37200-SH, Delta shRNA Plasmid (m): sc-37201-SH, Delta shRNA (h) Lentiviral Particles: sc-37200-V and Delta shRNA (m) Lentiviral Particles: sc-37201-V.

Molecular Weight of Delta: 75 kDa.

Positive Controls: PC-3 cell lysate: sc-2220, HeLa whole cell lysate: sc-2200 or ECV304 cell lysate: sc-2269.

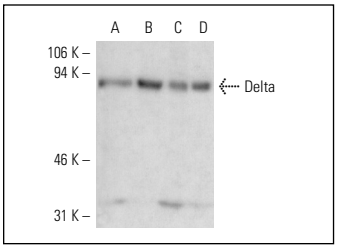
RECOMMENDED SECONDARY REAGENTS

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.

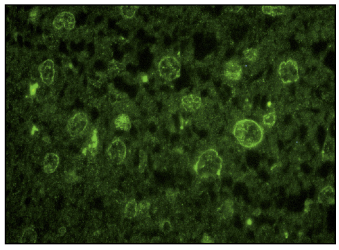
STORAGE

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

DATA



Delta (H-265): sc-9102. Western blot analysis of Delta expression in ECV304 (**A**), PC-3 (**B**), Caki-1 (**C**) and HeLa (**D**) whole cell lysates.



Delta (H-265): sc-9102. Immunofluorescence staining of normal mouse liver frozen section showing plasma membrane staining.

SELECT PRODUCT CITATIONS

1. Weijzen, S., et al. 2002. The Notch ligand Jagged-1 is able to induce maturation of monocyte-derived human dendritic cells. J. Immunol. 169: 4273-4278.
2. Conboy, I.M., et al. 2002. The regulation of Notch signaling controls satellite cell activation and cell fate determination in postnatal myogenesis. Dev. Cell 3: 397-409.
3. Cui, P.H., et al. 2010. Impaired transactivation of the human CYP2J2 arachidonic acid epoxygenase gene in HepG2 cells subjected to nitrative stress. Br. J. Pharmacol. 159: 1440-1449.
4. Godoy, P., et al. 2010. Reversible manipulation of apoptosis sensitivity in cultured hepatocytes by matrix-mediated manipulation of signaling activities. Methods Mol. Biol. 640: 139-155.
5. Hunkapiller, N.M., et al. 2011. A role for Notch signaling in trophoblast endovascular invasion and in the pathogenesis of pre-eclampsia. Development 138: 2987-2998.
6. Skaggs, K., et al. 2011. Regulation of spinal interneuron development by the Olig-related protein Bhlhb5 and Notch signaling. Development 138: 3199-3211.
7. Bordonaro, M., et al. 2011. The Notch ligand Delta-like 1 integrates inputs from TGFβ/activin and Wnt pathways. Exp. Cell Res. 317: 1368-1381.

RESEARCH USE

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