**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. Delta-4 is a membrane protein that activates Notch-1 and Notch-4. It is expressed in a wide range of adult and fetal tissues, especially in vascular endothelium.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: DLL4 (human) mapping to 15q15.1; Dll4 (mouse) mapping to 2 E5.

**SOURCE**

Delta-4 (H-70) is a rabbit polyclonal antibody raised against amino acids 171-240 mapping within an N-terminal extracellular domain of Delta-4 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-4 (H-70) is recommended for detection of precursor and mature Delta-4 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-4 (H-70) is also recommended for detection of precursor and mature Delta-4 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Delta-4 siRNA (h): sc-39667, Delta-4 siRNA (m): sc-39668, Delta-4 shRNA Plasmid (h): sc-39667-SH, Delta-4 shRNA Plasmid (m): sc-39668-SH, Delta-4 shRNA (h) Lentiviral Particles: sc-39667-V and Delta-4 shRNA (m) Lentiviral Particles: sc-39668-V.

Molecular Weight of Delta-4: 75 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203.

**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**

**SELECT PRODUCT CITATIONS**


**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.

**MONOS Satisfaction Guaranteed**

Try Delta-4 (G-12): sc-365429, our highly recommended monoclonal alternative to Delta-4 (H-70).