

DAPL1 (C-15): sc-139337

BACKGROUND

In contrast to growth factors which promote cell proliferation, FAS ligand (FAS-L) and the tumor necrosis factors (TNFs) rapidly induce apoptosis. Cellular response to FAS-L and TNF is mediated by structurally related receptors containing a conserved cytoplasmic region called the "death domain." DAP-1 (Death associated protein-1) is a basic, proline-rich protein expressed in γ interferon (IFN- γ)-induced HeLa cells. DAP-1 is a member of the ubiquitin homology (UbH) family which also includes SUMO-1. DAP-1 interacts with the death domain of TNF-R1 and can trigger programmed cell death in a variety of cell lines, as well as suppress NF- κ B/Rel activity. DAPL1 (death-associated protein-like 1), also known as EEDA (Early epithelial differentiation-associated protein), is a 107 amino acid protein that is expressed in hair follicles and is thought to function in a similar manner to DAP-1, possibly participating in the early stages of epithelial differentiation and/or apoptosis.

REFERENCES

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3. Levy-Strumpf, N. and Kimchi, A. 1998. Death associated proteins (DAPs): from gene identification to the analysis of their apoptotic and tumor suppressive functions. *Oncogene* 17: 3331-3340.
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6. Hudson, A.O., Gilvarg, C. and Leustek, T. 2008. Biochemical and phylogenetic characterization of a novel diaminopimelate biosynthesis pathway in prokaryotes identifies a diverged form of LL-diaminopimelate aminotransferase. *J. Bacteriol.* 190: 3256-3263.

CHROMOSOMAL LOCATION

Genetic locus: DAPL1 (human) mapping to 2q24.1.

SOURCE

DAPL1 (C-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of DAPL1 of human origin.

STORAGE

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

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-139337 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DAPL1 (C-15) is recommended for detection of DAPL1 of human and rat origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other DAP family members.

Suitable for use as control antibody for DAPL1 siRNA (h): sc-94956, DAPL1 shRNA Plasmid (h): sc-94956-SH and DAPL1 shRNA (h) Lentiviral Particles: sc-94956-V.

Molecular Weight of DAPL1: 12 kDa.

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) 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.

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.