

DLK (C-19): sc-8624

BACKGROUND

The human DLK gene maps to human chromosome 14q32.2 and encodes a 383 amino acid protein. DLK, also designated preadipocyte factor 1 (Pref-1), ZOG, pG2 or FA1, is a transmembrane protein with six tandem EGF-like repeats in the putative extracellular domain, which is characteristic of the EGF-like protein family. DLK shares homology with invertebrate homeotic proteins, including Delta and Notch, which are proteins that mediate normal neural differentiation in *Drosophila*. In mammalian preadipocytes, multiple discrete forms of DLK protein are present due to N-linked glycosylation. DLK is expressed in tumors with neuroendocrine features, such as neuroblastoma and pheochromocytoma cell lines. Normal tissue expression is restricted to the adrenal gland and placenta. Protein-protein interaction between DLK proteins belonging to the same or to different cells, or the interaction between soluble and membrane DLK variants, may be important in regulation of DLK function.

CHROMOSOMAL LOCATION

Genetic locus: DLK1 (human) mapping to 14q32.2; Dlk1 (mouse) mapping to 12 F1.

SOURCE

DLK (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of DLK 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.

Blocking peptide available for competition studies, sc-8624 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DLK (C-19) is recommended for detection of precursor and mature DLK 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).

DLK (C-19) is also recommended for detection of precursor and mature DLK in additional species, including equine and bovine.

Suitable for use as control antibody for DLK siRNA (h): sc-39669, DLK siRNA (m): sc-39670, DLK shRNA Plasmid (h): sc-39669-SH, DLK shRNA Plasmid (m): sc-39670-SH, DLK shRNA (h) Lentiviral Particles: sc-39669-V and DLK shRNA (m) Lentiviral Particles: sc-39670-V.

Molecular Weight of DLK isoforms: 45-60 kDa.

Positive Controls: SK-N-SH cell lysate: sc-2410, NIH/3T3 whole cell lysate: sc-2210 or JAR cell lysate: sc-2276.

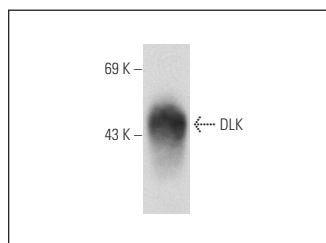
STORAGE

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

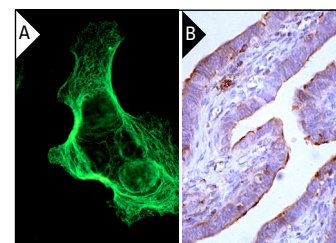
RESEARCH USE

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

DATA



DLK (C-19): sc-8624. Western blot analysis of DLK expression in SK-N-SH whole cell lysate.



DLK (C-19): sc-8624. Immunofluorescence staining of methanol-fixed JEG-3 cells showing membrane localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human ovary tissue showing membrane staining of glandular cells (B).

SELECT PRODUCT CITATIONS

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- Cheng, H., et al. 2009. Validation of immature adipogenic status and identification of prognostic biomarkers in myxoid liposarcoma using tissue microarrays. *Hum. Pathol.* 40: 1244-1251.
- Meister, B., et al. 2013. Delta-like 1 homologue is a hypothalamus-enriched protein that is present in orexin-containing neurones of the lateral hypothalamic area. *J. Neuroendocrinol.* 25: 617-625.

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Try **DLK (B-7): sc-376755** or **DLK (Lc-12): sc-80024**, our highly recommended monoclonal alternatives to DLK (C-19).