

Recombinant Human DLK1, Fc-tagged

Cat. No. DLK1-26914TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to Signal peptide and extracellular domain of Human DLK fused at the C-terminus to the Fc portion of Human IgG1, 80kDa.
Species	Human
Source	HEK293
ProteinLength	303 amino acids
Description	This gene encodes a transmembrane protein containing six epidermal growth factor repeats. The protein is involved in the differentiation of several cell types, including adipocytes; it is also thought to be a tumor suppressor. It is one of several imprinted genes located in a region of on chr 14q32. Certain mutations in this imprinted region can cause phenotypes similar to maternal and paternal uniparental disomy of chromosome 14 (UPD14). This gene is expressed from the paternal allele. A polymorphism within this gene has been associated with child and adolescent obesity. The mode of inheritance for this polymorphism is polar overdominance; this non-Mendelian inheritance pattern was first described in sheep with the callipyge phenotype, which is characterized by muscle hypertrophy and decreased fat mass.
Conjugation	Fc
Molecular Weight	80.000kDa
Tissue specificity	Found within the stromal cells in close contact to the vascular structure of placental

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villi, yolk sac, fetal liver, adrenal cortex and pancreas and in the beta cells of the islets of Langerhans in the adult pancreas. Found also in some forms of neuroendo

Biological activity Inhibits adipogenesis of 3T3L1 cells.

Form Liquid

Purity >90% by SDS-PAGE

Storage buffer Preservative: None
Constituents: PBS

Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Sequence Similarities Contains 6 EGF-like domains.

GENE INFORMATION

Gene Name [DLK1 delta-like 1 homolog \(Drosophila\) \[Homo sapiens \]](#)

Official Symbol [DLK1](#)

Synonyms DLK1; delta-like 1 homolog (Drosophila); delta like homolog (Drosophila); protein delta homolog 1; FA1; pG2; Pref 1; ZOG;

Gene ID [8788](#)

mRNA Refseq [NM_003836](#)

Protein Refseq [NP_003827](#)

MIM [176290](#)

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Uniprot ID	P80370
Chromosome Location	14q32
Pathway	Adipogenesis, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Notch signaling pathway, organism-specific biosystem;
Function	molecular_function;

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