

For Research Use Only

DLK1 Monoclonal antibody

Catalog Number: 67923-1-Ig



Basic Information

Catalog Number: 67923-1-Ig	GenBank Accession Number: BC007741	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 8788	CloneNo.: 2C3H8
Source: Mouse	Full Name: delta-like 1 homolog (Drosophila)	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:2000-1:8000
Isotype: IgG1	Calculated MW: 41 kDa	
Immunogen Catalog Number: AG30916	Observed MW: 45-60 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

Human, Pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : JAR cells, human placenta tissue, pig adrenal gland tissue, NCCIT cells

IHC : human pancreas cancer tissue,

Background Information

DLK1, also named PREF1, FA1, or pG2, is a transmembrane protein belonging to the epidermal growth factor (EGF)-like superfamily (PMID: 8095043). It contains six EGF-like repeats in the extracellular region. DLK1 is abundant in preadipocytes and regulate adipocyte differentiation negatively (PMID: 8500166). Deficiency of DLK1 gives rise to growth retardation and accelerated adiposity in mouse model. Expression of DLK1 is found in tumors with neuroendocrine features that implies DLK1 may be involved in neuroendocrine differentiation (PMID: 8095043). It has been reported overexpression of DLK1 could lead to the development of metabolic abnormalities by impairment of adipocyte function in mice (PMID: 12588883). The gene of DLK1 maps to chromosome 14q32, and encodes a 383-amino acid protein with a calculated molecular mass of 41 kDa. In preadipocytes, multiple discrete forms of DLK1 protein of 45-60 kDa are present, owing in part to N-linked glycosylation (PMID: 8500166).

Storage

Storage:

Store at -20°C.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

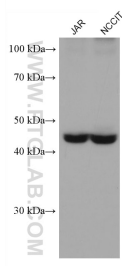
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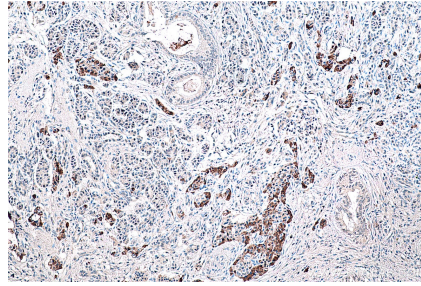
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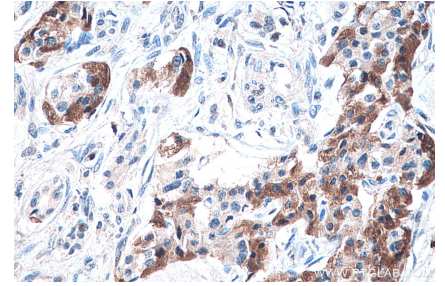
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67923-1-Ig (DLK1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 67923-1-Ig (DLK1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 67923-1-Ig (DLK1 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).