

For Research Use Only

# DLK1 Polyclonal antibody

Catalog Number: 10636-1-AP

Featured Product

19 Publications



## Basic Information

<b>Catalog Number:</b> 10636-1-AP	<b>GenBank Accession Number:</b> BC007741	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 650 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8788	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:500-1:2000
<b>Source:</b> Rabbit	<b>Full Name:</b> delta-like 1 homolog (Drosophila)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 41 kDa	
<b>Immunogen Catalog Number:</b> AG0991	<b>Observed MW:</b> 45-60 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

FC, IHC, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, pig, rat

**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 :** mouse placenta tissue, mouse ovary tissue, 3T3-L1 cells, MCF-7 cells, A549 cells, mouse brain tissue

**IHC :** human pancreas cancer tissue, human breast 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Junyan Tao	24837480	Gastroenterology	IHC
Jinjing Tan	31661545	Biosci Rep	WB,IHC
Ran Jing	31090987	Nephrology (Carlton)	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### 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

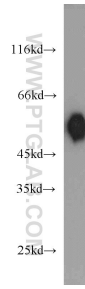
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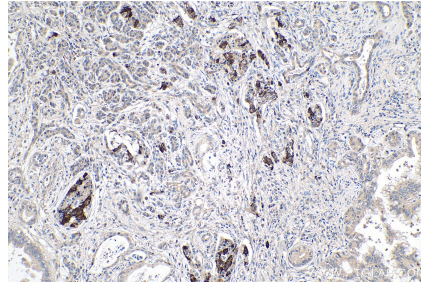
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W: ptglab.com

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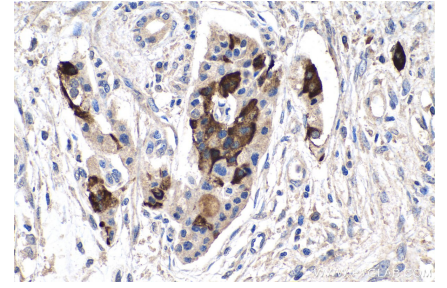
## Selected Validation Data



mouse placenta tissue were subjected to SDS PAGE followed by western blot with 10636-1-AP (DLK1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 10636-1-AP (DLK1 antibody) at dilution of 1:1000 (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 10636-1-AP (DLK1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).