

DLK1 Polyclonal antibody

Catalog Number: 29288-1-AP

Basic Information

| | | |
|---|--|--|
| Catalog Number: 29288-1-AP | GenBank Accession Number: BC007741 | Purification Method: Antigen affinity purification |
| Size: 300 µg/ml | GeneID (NCBI): 8788 | Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500 |
| Source: Rabbit | UNIPROT ID: P80370 | |
| Isotype: IgG | Full Name: delta-like 1 homolog (Drosophila) | |
| Immunogen Catalog Number: AG30916 | Calculated MW: 41 kDa Observed MW: 60 kDa | |

Applications

| | |
|--|--|
| Tested Applications: IHC, WB, ELISA | Positive Controls: WB : mouse brain tissue, rat brain tissue IHC : human placenta tissue, |
| Species Specificity: Human, Mouse, Rat | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

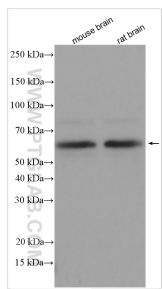
Background Information

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).

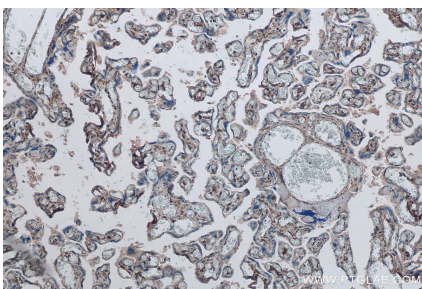
Storage

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

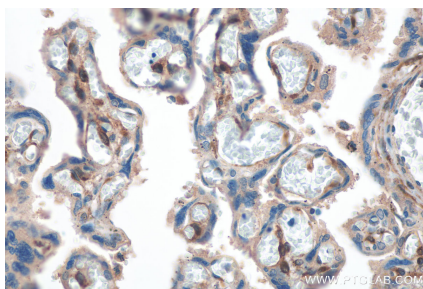
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29288-1-AP (DLK1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 29288-1-AP (DLK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 29288-1-AP (DLK1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).