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# DLK Antibody
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP11212A**

## Specification

### DLK Antibody - Product Information

| | |
|---|---|
| Application | **IHC-P, WB,E** |
| Primary Accession | P80370 |
| Other Accession | NP_003827.3 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |

### DLK Antibody - Additional Information

**Gene ID** 8788

**Other Names**
Protein delta homolog 1, DLK-1, pG2, Fetal antigen 1, FA1, DLK1, DLK

**Target/Specificity**
This DLK Antibody is generated from rabbits immunized with a recombinant protein of human DLK.

**Dilution**
IHC-P~~1:50~100
WB~~1:1000
E~~Use at an assay dependent concentration.

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
DLK Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### DLK Antibody - Protein Information

**Name** DLK1

**Synonyms** DLK

**Function** May have a role in neuroendocrine differentiation.

**Cellular Location**
Membrane; Single-pass type I membrane protein. Cytoplasm {ECO:0000250|UniProtKB:O70534}

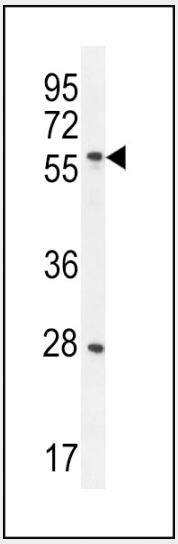
**Tissue Location**
Found within the stromal cells in close contact to the vascular structure of placental villi, yolk sac, fetal liver, adrenal cortex and pancreas and in the beta cells of the islets of Langerhans in the adult pancreas. Found also in some forms of neuroendocrine lung tumor tissue

## DLK Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## DLK Antibody - Images




DLK Antibody (Cat. #AP11212a) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the DLK antibody detected the DLK protein (arrow).

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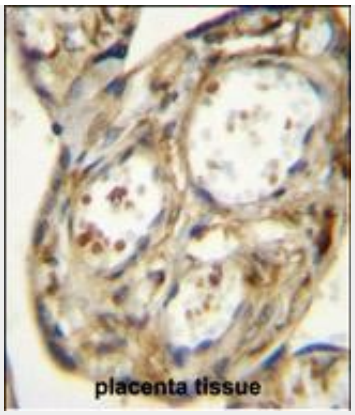


DLK Antibody (Cat. #AP11212a)immunohistochemistry analysis in formalin fixed and paraffin embedded human placenta tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of DLK Antibody for immunohistochemistry. Clinical relevance has not been evaluated.

**DLK Antibody - Background**

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.

**DLK Antibody - References**

Yanai, H., et al. J. Biochem. 148(1):85-92(2010) Yu, F., et al. Liver Int. 30(5):703-714(2010) Akiyama, J., et al. Biochem. Biophys. Res. Commun. 393(4):662-667(2010) Wermter, A.K., et al. Eur. J. Hum. Genet. 16(9):1126-1134(2008) Charlier, C., et al. Genome Res. 11(5):850-862(2001)