

Datasheet for ABIN1169184
anti-DLK1 antibody (Extracellular Domain)

3 Images

1 Publication

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Overview

Quantity:	100 µg
Target:	DLK1
Binding Specificity:	Extracellular Domain
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This DLK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Immunogen:	Recombinant human DLK1 (extracellular domain).
Clone:	PF299-1
Isotype:	IgG1
Specificity:	Recognizes human DLK1.
Cross-Reactivity:	Human
No Cross-Reactivity:	Mouse (Murine)
Cross-Reactivity (Details):	Does not cross-react with mouse DLK1.
Sterility:	0.2 µm filtered

Target Details

Target:	DLK1
Alternative Name:	DLK1 (DLK1 Products)
Background:	<p>The transmembrane and secreted protein delta-like 1 homolog (DLK1, Protein delta homolog 1, Preadipocyte factor 1, Pref-1) belongs to the EGF-like family. It can be cleaved by a tumor necrosis factor-alpha converting enzyme (TACE) to release a soluble form. DLK1 plays important roles in regulating cell differentiation such as adipogenesis and osteogenesis. Membrane-bound DLK1 promotes hypertrophic myotube formation, whereas soluble DLK1 inhibits myotube formation. The soluble form of DLK1 inhibits preadipocyte differentiation, while membrane DLK1 represses preadipocyte proliferation. DLK1 is also associated with tumor invasion.</p>
UniProt:	P80370

Application Details

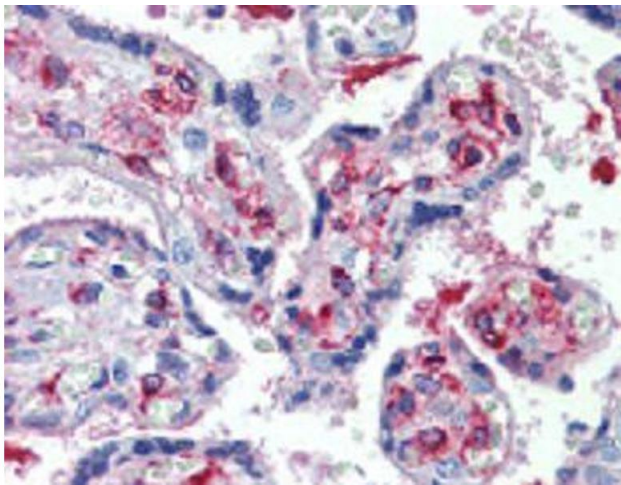
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	0.2µm-filtered solution in PBS, pH 7.4. Contains no preservatives.
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	<p>Short Term Storage: +4°C</p> <p>Long Term Storage: -20°C</p> <p>Stable for at least 1 year after receipt when stored at -20°C.</p>
Expiry Date:	12 months

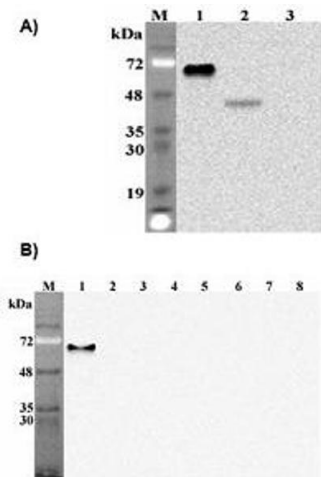
Publications

Product cited in:	<p>Kluth, Radke, Kögler: "Increased Haematopoietic Supportive Function of USSC from Umbilical Cord Blood Compared to CB MSC and Possible Role of DLK-1." in: Stem cells international, Vol. 2013, pp. 985285, (2013) (PubMed).</p>
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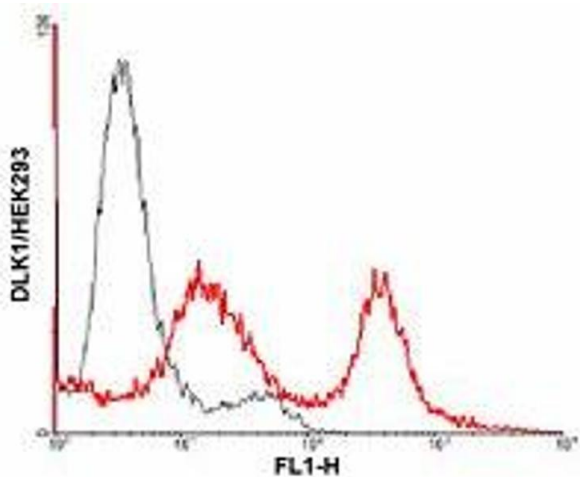
Immunohistochemistry

Image 1. Immunohistochemical staining of DLK1 using anti-DLK1 (human), mAb (PF299-1) in placenta, villi (1:500 dilution). This antibody has been tested in immunohistochemistry, analyzed by an anatomic pathologist and validated for use in IHC applications against formalin-fixed, paraffin-embedded human tissues. The image shows the localization of the antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain.



Western Blotting

Image 2. Western blot analysis of human Pref-1 using anti-DLK1 (human), mAb (PF299-1) at 1: 2,000 dilution. A. 1. Human Pref-1 Fc protein. 2. Transfected human Pref-1 full length cell lysate (HEK 293). 3. Mock Transfected HEK293 cell lysate. B. 1. Human Pref-1 Fc protein. 2. Mouse Pref-1 Fc protein. 3. Human DNER Fc protein. 4. Human DLL1 Fc protein. 5. Human DLL3 Fc protein. 6. Human DLL4 Fc protein. 7. Human Jagged1 Fc protein. 8. Human FGF23 Fc protein.



Flow Cytometry

Image 3. FACS: DLK1-transfected HEK 293 (Full length) cells were stained significantly using anti-DLK1 (human), mAb (PF299-1) .