

Product datasheet

Anti-DLK-1 antibody [EPR19830] ab210471

KO VALIDATED Recombinant RabMAB

★★★★★ [3 Abreviews](#) [3 References](#) [6 Images](#)

Overview

Product name	Anti-DLK-1 antibody [EPR19830]
Description	Rabbit monoclonal [EPR19830] to DLK-1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Rat
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Mouse placenta and embryo lysates. IHC-P: Mouse cerebrum and E14.5 embryo tissues; Rat cerebrum tissue.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAB[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAB[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19830
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab210471 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000. Detects a band of approximately 50 kDa (predicted molecular weight: 41 kDa).
IHC-P	★★★★★ (2)	1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function

May have a role in neuroendocrine differentiation.

Tissue specificity

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.

Sequence similarities

Contains 6 EGF-like domains.

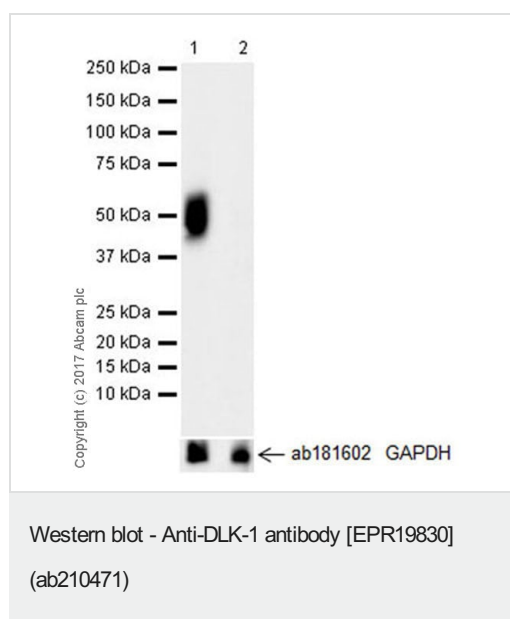
Post-translational modifications

N- and O-glycosylated.

Cellular localization

Membrane.

Images



All lanes : Anti-DLK-1 antibody [EPR19830] (ab210471) at 1/1000 dilution

Lane 1 : Mouse placenta lysate

Lane 2 : DLK-1-knockout mouse placenta lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Developed using the ECL technique.

Predicted band size: 41 kDa

Observed band size: 50 kDa

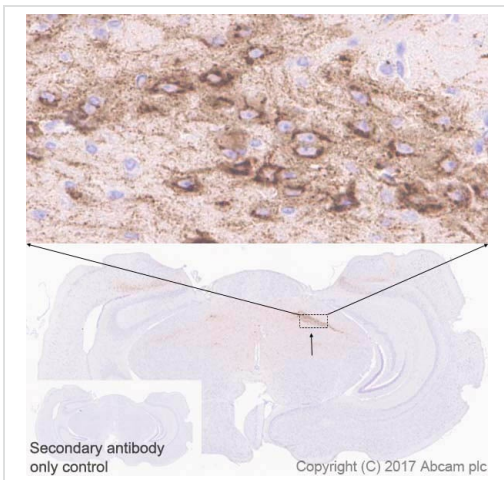
Exposure time: 32 seconds

Blocking/Dilution buffer: 5% NFD/MTBST.

The expression pattern is consistent with the literature (PMID: 21419176 and PMID: 19247431).

The tissue lysates were kindly provided by our collaborator Prof. Anne Ferguson-Smith, Cambridge University.

The blot was developed on a BIO-RAD® ChemiDoc™ MP instrument.

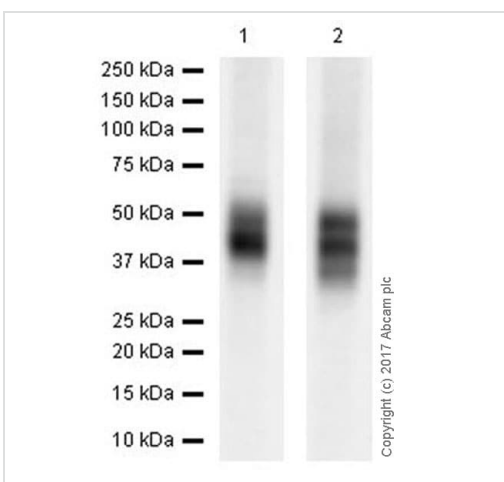


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DLK-1 antibody [EPR19830] (ab210471)

Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue labeling DLK-1 with ab210471 at 1/500 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic staining in the substantia nigra and ventral tegmental area (arrow) of mouse cerebrum (PMID: 19515692) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).



Western blot - Anti-DLK-1 antibody [EPR19830] (ab210471)

All lanes : Anti-DLK-1 antibody [EPR19830] (ab210471) at 1/5000 dilution

Lane 1 : Mouse placenta lysate at 0.005 µg

Lane 2 : Mouse embryo lysate at 5 µg

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Developed using the ECL technique.

Predicted band size: 41 kDa

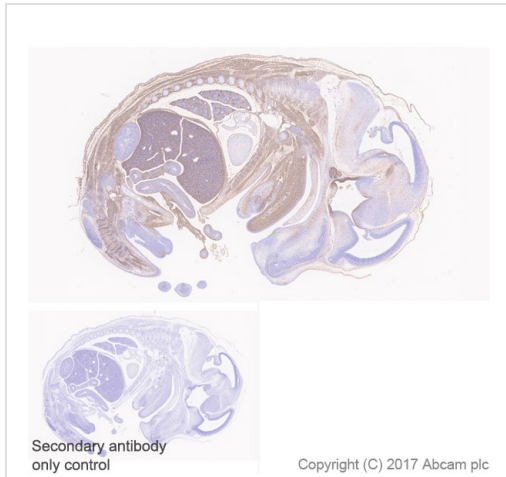
Observed band size: 50 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFD/MTBST.

The expression pattern is consistent with the literature (PMID: 21419176 and PMID: 19247431).

The blot was developed on a BIO-RAD[®] ChemiDoc[™] MP instrument.

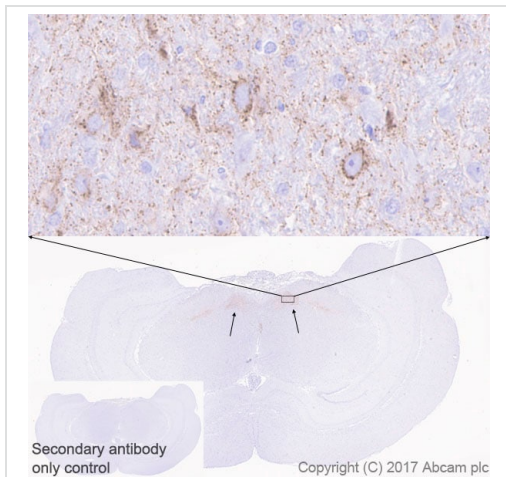


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DLK-1 antibody [EPR19830] (ab210471)

Immunohistochemical analysis of paraffin-embedded mouse E14.5 embryo tissue labeling DLK-1 with ab210471 at 1/500 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic staining in mouse E14.5 embryo (PMID: 16456855) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DLK-1 antibody [EPR19830] (ab210471)

Immunohistochemical analysis of paraffin-embedded rat cerebrum tissue labeling DLK-1 with ab210471 at 1/500 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic staining in the substantia nigra and ventral tegmental area (arrow) of rat cerebrum (PMID: 19515692) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-DLK-1 antibody [EPR19830] (ab210471)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- We investigate all quality concerns to ensure our products perform to the highest standards

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