


## Product datasheet

# Anti-LDB1 antibody ab96799

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### Overview

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<b>Product name</b>	Anti-LDB1 antibody
<b>Description</b>	Rabbit polyclonal to LDB1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human <b>Predicted to work with:</b> Pig, Zebrafish 
<b>Immunogen</b>	Recombinant fragment corresponding to a region within amino acids 50 and 345 of Human LDB1 (NP_003884)
<b>Positive control</b>	WB: HEK293T, A431, HeLa, HepG2 and Raji cell lysates; Mouse brain tissue lysate. IHC-P: U87 xenograft; Mouse muscle and brain tissues. IHC-Fr: Mouse brain tissue. ICC/IF: HeLa cells. IP: HEK293T cells.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab96799 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		1/500 - 1/3000. Predicted molecular weight: 47 kDa.
IHC-P		1/100 - 1/1000.
ICC/IF		1/100 - 1/1000.
IP		Use at an assay dependent concentration.

## Target

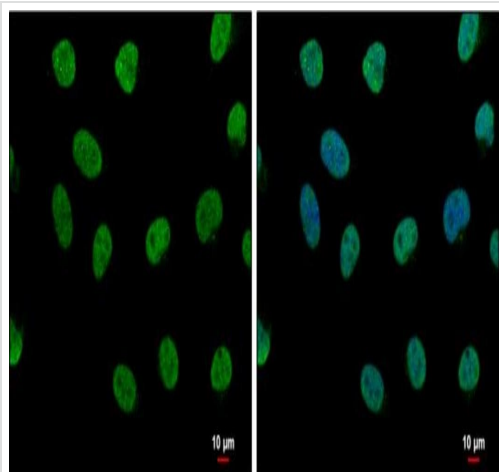
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<b>Function</b>	Binds to the LIM domain of a wide variety of LIM domain-containing transcription factors. May regulate the transcriptional activity of LIM-containing proteins by determining specific partner interactions. May play a role in the development of motor neurons. Acts synergistically with LHX1/LIM1 in axis formation and activation of gene expression. Acts with LMO2 in the regulation of red blood cell development, maintaining erythroid precursors in an immature state.
<b>Tissue specificity</b>	Expressed in a wide range of adult tissues including brain, heart, skeletal muscle, colon, thymus, spleen, kidney, liver, small intestine, lung and peripheral blood leukocytes.
<b>Sequence similarities</b>	Belongs to the LDB family.
<b>Domain</b>	The dimerization domain is located in the N-terminus.
<b>Post-translational modifications</b>	Ubiquitinated by RLIM/RNF12, leading to its degradation by the proteasome.
<b>Cellular localization</b>	Nucleus.

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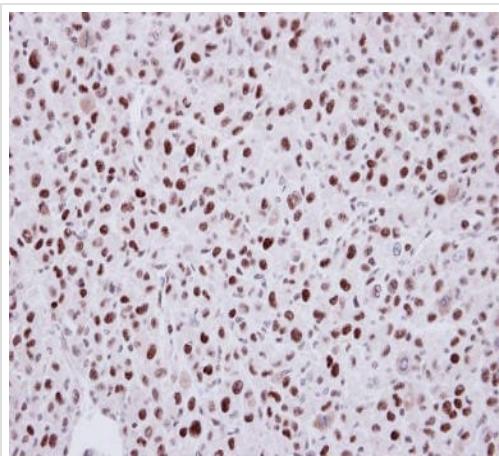
## Images

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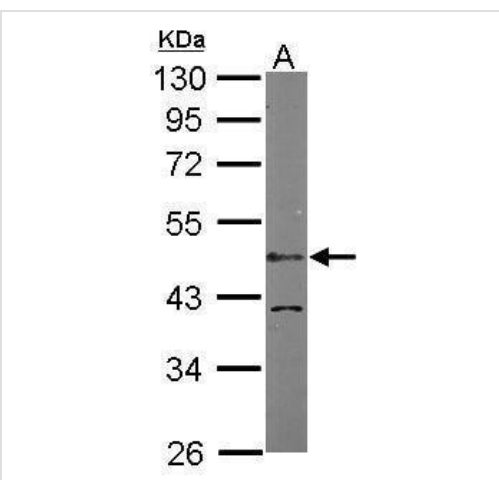
HeLa cells stained for LDB1 (green) using ab96799 at 1/500 dilution in ICC/IF.

Immunocytochemistry/ Immunofluorescence - Anti-LDB1 antibody (ab96799)



Immunohistochemical analysis of paraffin-embedded U87 xenograft using ab96799 at a dilution of 1/100.

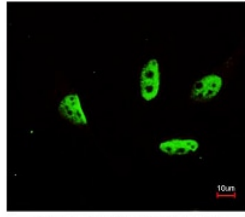
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LDB1 antibody (ab96799)



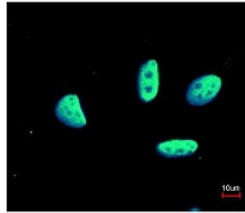
Anti-LDB1 antibody (ab96799) at 1/1000 dilution + Mouse brain lysate at 50 µg

**Predicted band size: 47 kDa**

Western blot - Anti-LDB1 antibody (ab96799)

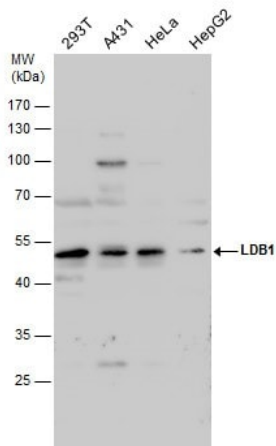


Merged with DNA probe



Immunocytochemistry/ Immunofluorescence - Anti-LDB1 antibody (ab96799)

Immunofluorescence analysis of paraformaldehyde-fixed HeLa cells using ab96799 at a dilution of 1/200.



Western blot - Anti-LDB1 antibody (ab96799)

**All lanes :** Anti-LDB1 antibody (ab96799) at 1/1000 dilution

**Lane 1 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

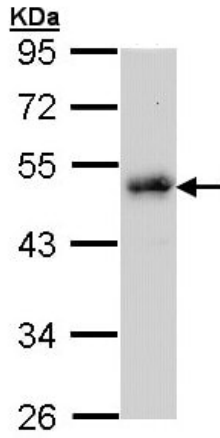
**Lane 2 :** A431 (human epidermoid carcinoma cell line) whole cell lysate

**Lane 3 :** HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

**Lane 4 :** HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate

Lysates/proteins at 30  $\mu$ g per lane.

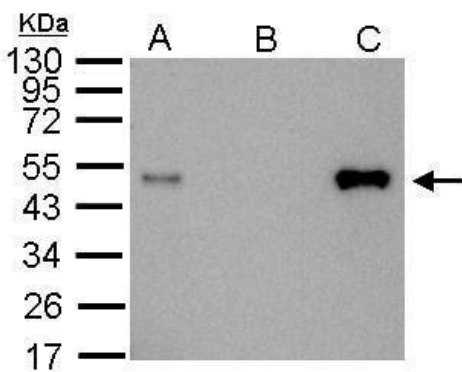
**Predicted band size:** 47 kDa



Western blot - Anti-LDB1 antibody (ab96799)

Anti-LDB1 antibody (ab96799) at 1/1000 dilution + Raji whole cell lysate at 30  $\mu$ g

**Predicted band size:** 47 kDa



Immunoprecipitation - Anti-LDB1 antibody (ab96799)

LDB1 was immunoprecipitated from 1000  $\mu$ g 293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate with ab96799. Western blot was performed from the immunoprecipitate using 2.5  $\mu$ g of ab96799 at 1/1000 dilution.

**Lane A:** 20  $\mu$ g 293T whole cell lysate/extract.

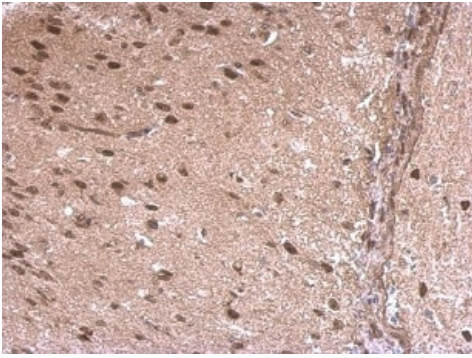
**Lane B:** Control with 2.5  $\mu$ g of preimmune rabbit IgG.

**Lane C:** ab96799 IP in 293T (12% SDS-PAGE).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LDB1 antibody (ab96799)

Paraffin-embedded mouse muscle tissue stained for LDB1 using ab96799 at 1/500 dilution in immunohistochemical analysis.



Paraffin-embedded rat middle brain tissue stained for LDB1 using ab96799 at a/500 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LDB1 antibody (ab96799)

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

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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