

Product datasheet

Anti-LOXL4 antibody ab88186

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Overview

Product name	Anti-LOXL4 antibody
Description	Rabbit polyclonal to LOXL4
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human LOXL4. Read Abcam's proprietary immunogen policy (Peptide available as ab99480 .)
Positive control	This antibody gave a positive signal in Human Testis and Skin Tissue Lysates. IF/ICC: A549 cell line.

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab88186** 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
ICC/IF		Use a concentration of 5 µg/ml.
WB		Use at an assay dependent concentration. Detects a band of approximately 80 kDa (predicted molecular weight: 84 kDa).

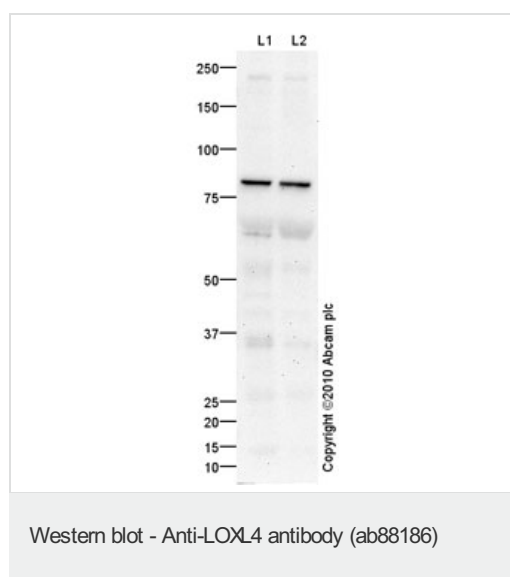
Application	Abreviews	Notes
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IHC-P Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Target

Function	May modulate the formation of a collagenous extracellular matrix.
Tissue specificity	Expressed in many tissues, the highest levels among the tissues studied being in the skeletal muscle, testis and pancreas. Expressed in cartilage.
Sequence similarities	Belongs to the lysyl oxidase family. Contains 4 SRCR domains.
Post-translational modifications	The lysine tyrosylquinone cross-link (LTQ) is generated by condensation of the epsilon-amino group of a lysine with a topaquinone produced by oxidation of tyrosine.
Cellular localization	Secreted > extracellular space.

Images



All lanes : Anti-LOXL4 antibody (ab88186) at 1 µg/ml

Lane 1 : Human testis tissue lysate - total protein ([ab30257](#))

Lane 2 : Human skin tissue lysate - total protein ([ab30166](#))

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

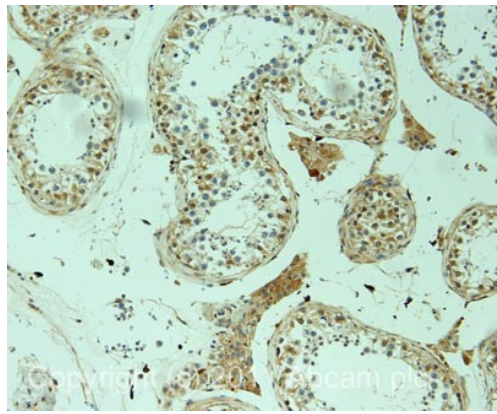
Predicted band size: 84 kDa

Observed band size: 80 kDa

[why is the actual band size different from the predicted?](#)

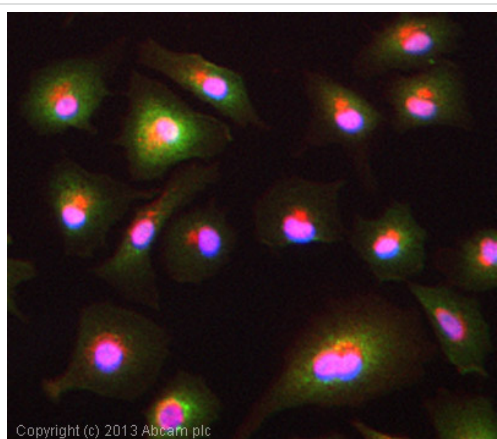
Exposure time: 12 minutes

The band observed at 80 kDa could potentially be a cleaved form of LOXL4. Abcam welcomes customer feedback.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LOXL4 antibody (ab88186)

IHC image of ab88186 staining in human testes formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab88186, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunocytochemistry/ Immunofluorescence - Anti-LOXL4 antibody (ab88186)

ICC/IF image of ab88186 stained A549 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab88186, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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