

Anti-PLOD2/LH2 antibody ab72939

★☆☆☆☆ [1 Abreviews](#) [3 References](#) [3 Images](#)

Overview

Product name	Anti-PLOD2/LH2 antibody
Description	Mouse polyclonal to PLOD2/LH2
Host species	Mouse
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length protein within Human PLOD2/LH2 aa 1-800. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements. NP_891988.1

General notes

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.

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&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Constituent: 100% PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab72939 in the following tested applications.

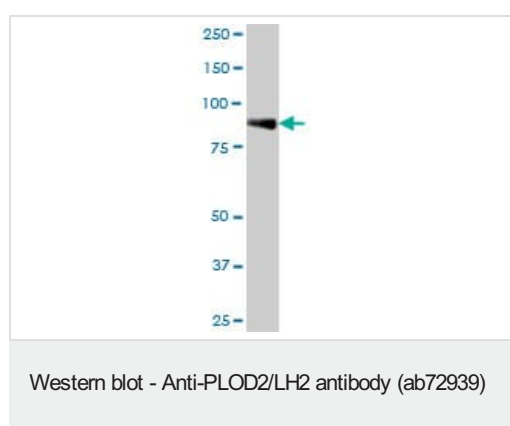
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 5 µg/ml. Detects a band of approximately 85 kDa (predicted molecular weight: 85 kDa).
ICC/IF		Use a concentration of 10 µg/ml.

Target

Function	Forms hydroxylysine residues in -Xaa-Lys-Gly- sequences in collagens. These hydroxylysines serve as sites of attachment for carbohydrate units and are essential for the stability of the intermolecular collagen cross-links.
Tissue specificity	Highly expressed in pancreas and muscle. Isoform 1 and isoform 2 are expressed in the majority of the examined cell types. Isoform 2 is specifically expressed in skin, lung, dura and aorta.
Involvement in disease	Defects in PLOD2 are the cause of Bruck syndrome type 2 (BRKS2) [MIM:609220]. Bruck syndrome, also known as osteogenesis imperfecta with congenital joint contractures, is an autosomal recessive disease characterized by generalized osteopenia, joint contractures at birth, fragile bones and short stature. It can be distinguished from osteogenesis imperfecta by the absence of hearing loss and dentinogenesis imperfecta, and by the presence of clubfoot and congenital joint limitations. The molecular defect is an aberrant cross-linking of bone collagen, due to underhydroxylation of lysine residues within the telopeptides of type I collagen, whereas the lysine residues in the triple helix are normal.
Sequence similarities	Contains 1 Fe2OG dioxygenase domain.
Cellular localization	Rough endoplasmic reticulum membrane.

Images



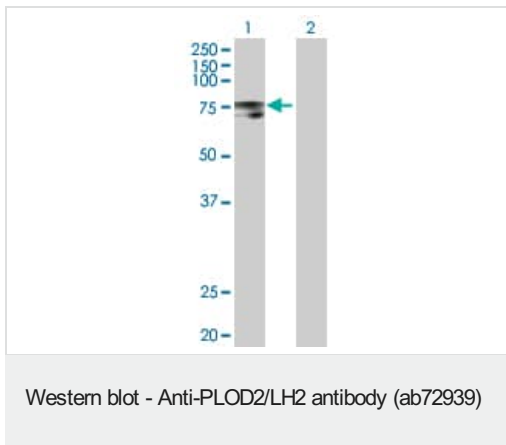
Anti-PLOD2/LH2 antibody (ab72939) at 1 µg/ml + human kidney tissue lysate at 25 µg

Secondary

Goat anti-mouse IgG (H&L)-HRP conjugate at 1/2500 dilution

Predicted band size: 85 kDa

Observed band size: 85 kDa



All lanes : Anti-PLOD2/LH2 antibody (ab72939) at 1 µg/ml

Lane 1 : PLOD2/LH2 transfected 293T cell lysate

Lane 2 : Non-transfected 293T cell lysate

Lysates/proteins at 25 µg per lane.

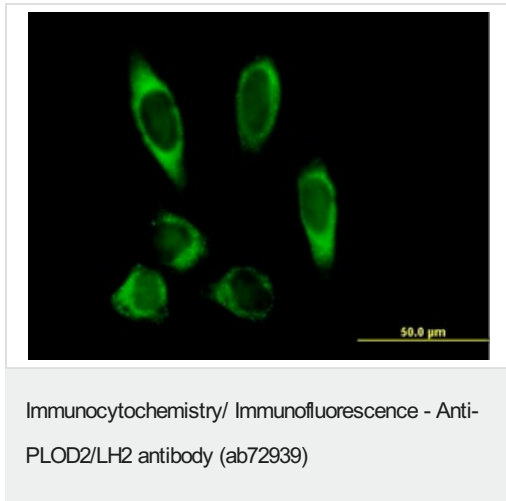
Secondary

All lanes : Goat anti-mouse IgG (H&L)-HRP conjugate at 1/2500 dilution

Predicted band size: 85 kDa

Observed band size: 75 kDa

Additional bands at: 70 kDa. We are unsure as to the identity of these extra bands.



ab72939, at 10µg/ml, staining PLOD2/LH2 in Hela cells by immunofluorescence.

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

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