

Product datasheet

Anti-PLOD3 antibody ab89263

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

Overview

Product name	Anti-PLOD3 antibody
Description	Mouse polyclonal to PLOD3
Host species	Mouse
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length protein within Human PLOD3. 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.
Positive control	HepG2 cell lysate, PLOD3 transfected 293T cell lysate and HeLa cell
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
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 ab89263 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. Predicted molecular weight: 85 kDa.
ICC/IF	★★★★★ (1)	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.

Involvement in disease

Defects in PLOD3 are the cause of lysyl hydroxylase 3 deficiency (LH3 deficiency) [MIM:612394]; also known as bone fragility with contractures arterial rupture and deafness. LH3 deficiency is a connective tissue disorder. The syndrome is characterized by congenital malformations severely affecting many tissues and organs and revealing features of several collagen disorders, most of them involving COL2A1 (type II collagen). The findings suggest that the failure of lysyl hydroxylation and hydroxylysyl carbohydrate addition, which affects many collagens, is the molecular basis of this syndrome.

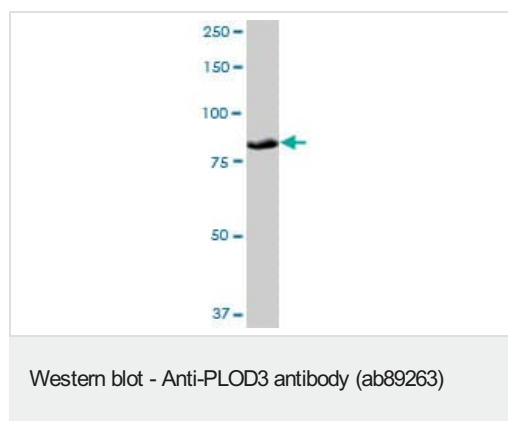
Sequence similarities

Contains 1 Fe2OG dioxygenase domain.

Cellular localization

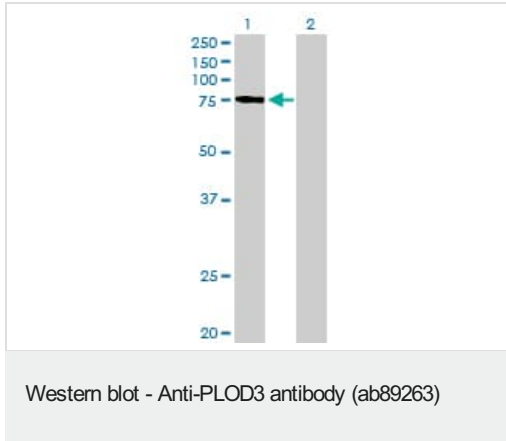
Rough endoplasmic reticulum membrane.

Images



Anti-PLOD3 antibody (ab89263) at 5 µg/ml + HepG2 cel lysate at 50 µg

Predicted band size: 85 kDa



All lanes : Anti-PLOD3 antibody (ab89263) at 5 µg/ml

Lane 1 : PLOD3 transfected 293T cell lysate

Lane 2 : Non-transfected lysate

Lysates/proteins at 50 µg per lane.

Predicted band size: 85 kDa



ab89263 at 10µg/ml staining PLOD3 on HeLa cell by immunofluorescence

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

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