

## Product datasheet

# Anti-PLOD3 antibody ab89263

★★★★★ 1 Abreviews 1 References 3 Images

### Overview

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<b>Product name</b>	Anti-PLOD3 antibody
<b>Description</b>	Mouse polyclonal to PLOD3
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Full length Human PLOD3 (NP_001075.1)
<b>Positive control</b>	HepG2 cell lysate, PLOD3 transfected 293T cell lysate and HeLa cell
<b>General notes</b>	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>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, as well as 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 and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

<b>Storage buffer</b>	pH: 7.4 Constituent: 2.68% PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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		
ICC/IF	★★★★☆	

## Application notes

ICC/IF: Use at a concentration of 10 µg/ml.

WB: Use at a concentration of 1 - 5 µg/ml. Predicted molecular weight: 85 kDa.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

## 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.

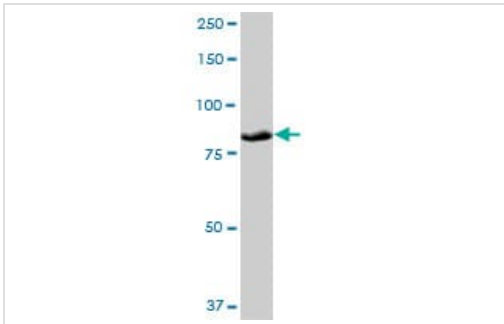
### Sequence similarities

Contains 1 Fe2OG dioxygenase domain.

### Cellular localization

Rough endoplasmic reticulum membrane.

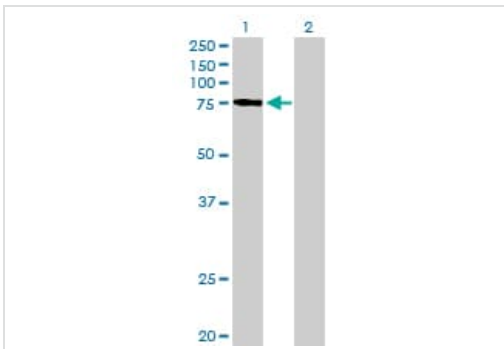
## Images



Western blot - Anti-PLOD3 antibody (ab89263)

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

**Predicted band size:** 85 kDa



Western blot - Anti-PLOD3 antibody (ab89263)

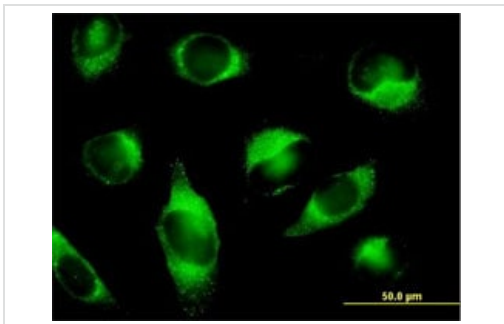
**All lanes :** Anti-PLOD3 antibody (ab89263) at 5 µg/ml

**Lane 1 :** PLOD3 transfected 293T cell lysate

**Lane 2 :** Non-transfected lysate

Lysates/proteins at 50 µg per lane.

**Predicted band size:** 85 kDa



Immunocytochemistry/ Immunofluorescence - Anti-PLOD3 antibody (ab89263)

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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