abcam

Product datasheet

Anti-PLOD3 antibody ab128698

5 References 1 Image

Overview

Product name	Anti-PLOD3 antibody
Description	Rabbit polyclonal to PLOD3
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Recombinant fragment, corresponding to amino acids 254-508 of Human PLOD3 (BC011674).
Positive control	human fetal kidney lysate for western blot, formalin-fixed paraffin-embedded human fetal small intestine for ICH-P
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	Lyophilized:Reconstitute with 200ul distilled sterile water. Please note that if you receive this product in liquid form it has already been reconstituted as described and no further reconstitution is necessary.
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: 1% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

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The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab128698 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
IHC-P		1/100 - 1/500.

Target

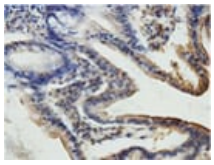
Function Forms hydroxylysine residues in -Xaa-Lys-Gly- sequences in collagens. These hydroxylysines serve as sites of attachment for carbohydrate units and are essential for the stability of the intermolecular collagen cross-links.

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PLOD3 antibody (ab128698)

ab128698, at a dilution of 1/100, staining PLOD3 in Formalin-fixed, Paraffin-embedded human fetal small intestine by Immunohistochemistry

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

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