


Product datasheet

Anti-Abhd5/CGI-58 antibody ab59488

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Overview

Product name	Anti-Abhd5/CGI-58 antibody
Description	Goat polyclonal to Abhd5/CGI-58
Host species	Goat
Specificity	This antibody is not expected to cross-react with ABHD4.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Sheep, Dog, Pig, Orangutan 
Immunogen	Synthetic peptide corresponding to Human Abhd5/CGI-58 aa 150-250 (internal sequence). Database link: Q8WTS1

 [Run BLAST with](#)

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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 and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab59488 in the following tested applications.

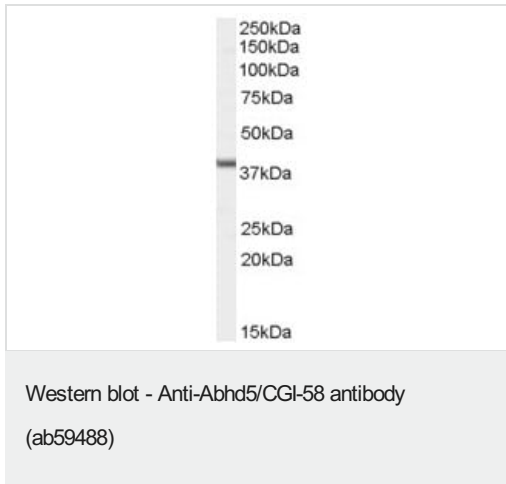
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.2 - 0.6 µg/ml. Detects a band of approximately 40 kDa (predicted molecular weight: 39 kDa). A 1 hour primary incubation is recommended for this product. Additional faint bands of 26kDa and 18kDa were observed in NIH-3T3. These bands were successfully blocked by incubation with the immunizing peptide.

Target

Function	Lysophosphatidic acid acyltransferase which functions in phosphatidic acid biosynthesis. May regulate the cellular storage of triacylglycerol through activation of the phospholipase PNPLA2. Involved in keratinocyte differentiation.
Tissue specificity	Widely expressed in various tissues, including lymphocytes, liver, skeletal muscle and brain. Expressed by upper epidermal layers and dermal fibroblasts in skin, hepatocytes and neurons (at protein level).
Involvement in disease	Defects in ABHD5 are the cause of Chanarin-Dorfman syndrome (CDS) [MIM:275630]; also called triglyceride storage disease with impaired long-chain fatty acid oxidation or neutral lipid storage disease with ichthyosis. CDS is an autosomal recessive inborn error of lipid metabolism with multisystemic accumulation of triglycerides although plasma concentrations are normal. Clinical characteristics are congenital generalized ichthyosis, vacuolated leukocytes, hepatomegaly, myopathy, cataracts, neurosensory hearing loss and developmental delay. The disorder presents at birth with generalized, fine, white scaling of the skin and a variable degree of erythema resembling non-bullous congenital ichthyosiform erythroderma.
Sequence similarities	Belongs to the peptidase S33 family. ABHD4/ABHD5 subfamily.
Developmental stage	Detected in fetal epidermis from 49 to 135 days estimated gestational age (at protein level).
Domain	The HXXXXD motif is essential for acyltransferase activity and may constitute the binding site for the phosphate moiety of the glycerol-3-phosphate.
Cellular localization	Cytoplasm. Lipid droplet. Colocalized with PLIN and ADRP on the surface of lipid droplets. The localization is dependent upon the metabolic status of the adipocytes and the activity of PKA.

Images

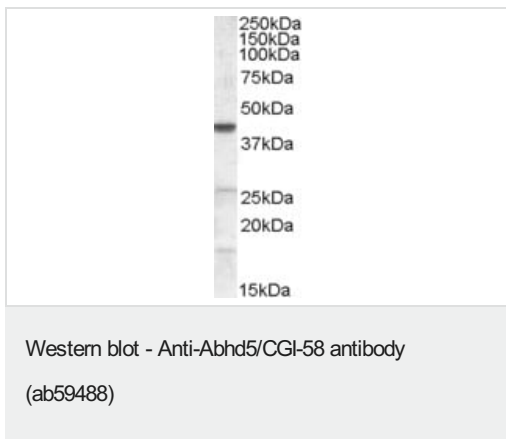


Anti-Abhd5/CGI-58 antibody (ab59488) at 1 µg/ml + A431 cell line lysate (35µg protein in RIPA buffer)

Predicted band size: 39 kDa

Observed band size: 38 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.



Anti-Abhd5/CGI-58 antibody (ab59488) at 0.2 µg/ml + NIH-3T3 cell lysate (RIPA buffer) at 35 µg

Predicted band size: 39 kDa

Observed band size: 40 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.

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

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