

Product datasheet

Anti-ACBD3 antibody [2G2] α b57568

KO **VALIDATED**

[4 Images](#)

Overview

Product name	Anti-ACBD3 antibody [2G2]
Description	Mouse monoclonal [2G2] to ACBD3
Host species	Mouse
Tested applications	Suitable for: WB, Sandwich ELISA, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment corresponding to Human ACBD3 aa 73-171. Sequence: RRLEQRWGFGLLEELYGLALRFFKEKDGKAFHPTYEEKLKLVALHKQVLMG PYNPDTCPPEVGFDDVLGNDRRREWAALGNMSKEDAMVEFVKLLNRCCHL Database link: Q9H3P7 Run BLAST with Run BLAST with
Positive control	WB: HeLa, PC-12, Raw 264 and NIH/3T3 cell lysates.

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	Preservative: None PBS, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Clone number	2G2
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab57568** in the following tested applications.

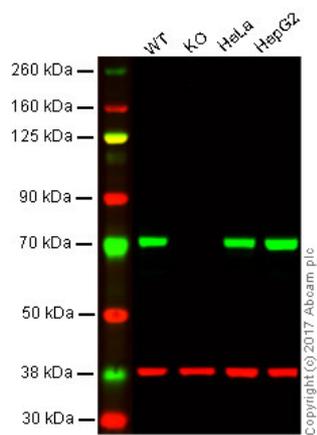
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 60 kDa.
Sandwich ELISA		Use at an assay dependent concentration. Detection limit for recombinant GST tagged ACBD3 is approximately 0.1ng/ml as a capture antibody.
IHC-P		Use a concentration of 3 µg/ml.
ICC/IF		Use a concentration of 10 µg/ml.

Target

Function	Involved in the maintenance of Golgi structure by interacting with giantin, affecting protein transport between the endoplasmic reticulum and Golgi. Involved in hormone-induced steroid biosynthesis in testicular Leydig cells.
Tissue specificity	Ubiquitous, with highest expression in testis and ovary.
Sequence similarities	Contains 1 ACB (acyl-CoA-binding) domain. Contains 1 GOLD domain.
Domain	The GOLD domain is essential for giantin binding.
Cellular localization	Golgi apparatus membrane. Mitochondrion. Also mitochondrial (via its interaction with PBR).

Images



Western blot - Anti-ACBD3 antibody [2G2]
(ab57568)

Lane 1: Wild type HAP1 whole cell lysate (20 μ g)

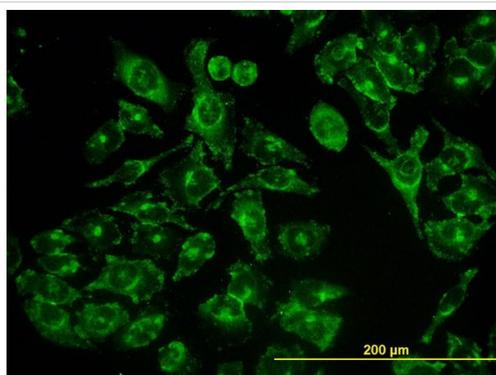
Lane 2: ACBD3 knockout HAP1 whole cell lysate (20 μ g)

Lane 3: HeLa whole cell lysate (20 μ g)

Lane 4: HepG2 whole cell lysate (20 μ g)

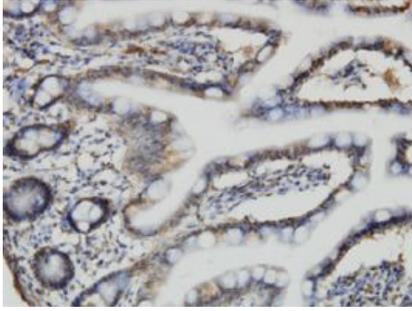
Lanes 1 - 4: Merged signal (red and green).
Green - ab57568 observed at 70 kDa. Red - loading control, ab181602, observed at 37 kDa.

ab57568 was shown to specifically react with ACBD3 when ACBD3 knockout samples were used. Wild-type and ACBD3 knockout samples were subjected to SDS-PAGE. Ab57568 and ab181602 (Rabbit anti GAPDH loading control) were incubated overnight at 4°C at 1 μ g/ml and 1/10000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed ab216772 and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed ab216777 secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



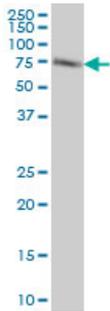
Immunocytochemistry/ Immunofluorescence - Anti-ACBD3 antibody [2G2] (ab57568)

Immunofluorescence of ab57568 on HeLa cell (antibody concentration 10 μ g/ml).



IHC-P - ACBD3 antibody (ab57568)

ACBD3 antibody (ab57568) used in immunohistochemistry at 3ug/ml on formalin fixed and paraffin embedded human small Intestine.



Western blot - ACBD3 antibody (ab57568)

ACBD3 antibody (ab57568) at 1ug/lane + HeLa cell lysate at 25ug/lane.

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