



## Product datasheet

# Anti-ACBD3 antibody [2G2] ab57568

**KO** VALIDATED

[4 Images](#)

### Overview

<b>Product name</b>	Anti-ACBD3 antibody [2G2]
<b>Description</b>	Mouse monoclonal [2G2] to ACBD3
<b>Tested applications</b>	<b>Suitable for:</b> WB, Sandwich ELISA, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	<p>Recombinant fragment corresponding to Human ACBD3 aa 73-171. Sequence:</p> <p>RRLEQRWGFGLLEELYGLALRFFKEKDGKAFHPTYEEKLKLVALHKQVLMG PYNPDCPEVGFDFVLGNDRRREWAALGNMSKEDAMVEFVKLLNRCCHL</p> <p>Database link: <a href="#">Q9H3P7</a></p> <p style="text-align: right;">  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> </p>
<b>Positive control</b>	WB: HeLa, PC-12, Raw 264 and NIH/3T3 cell lysates.

### Properties

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

### Applications

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

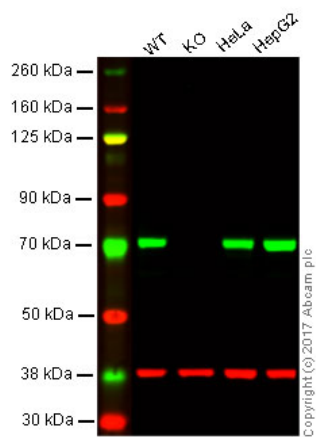
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

<b>Function</b>	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.
<b>Tissue specificity</b>	Ubiquitous, with highest expression in testis and ovary.
<b>Sequence similarities</b>	Contains 1 ACB (acyl-CoA-binding) domain. Contains 1 GOLD domain.
<b>Domain</b>	The GOLD domain is essential for giantin binding.
<b>Cellular localization</b>	Golgi apparatus membrane. Mitochondrion. Also mitochondrial (via its interaction with PBR).

## Images



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

**Predicted band size : 60 kDa**

Lane 1: Wild type HAP1 whole cell lysate (20  $\mu$ g)

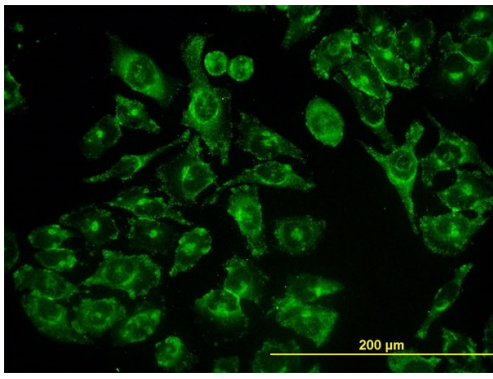
Lane 2: ACBD3 knockout HAP1 whole cell lysate (20  $\mu$ g)

Lane 3: HeLa whole cell lysate (20  $\mu$ g)

Lane 4: HepG2 whole cell lysate (20  $\mu$ g)

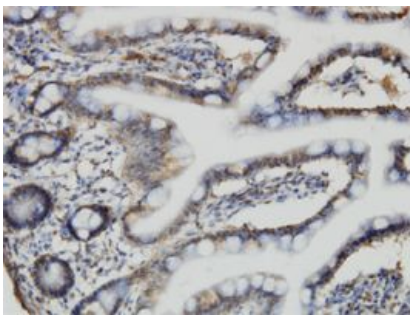
Lanes 1 - 4: Merged signal (red and green).  
Green - ab57568 observed at 70 kDa. Red - loading control, [ab181602](#), observed at 37 kDa.

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  $\mu$ 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.



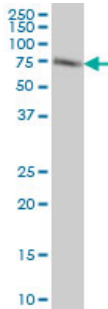
Immunofluorescence of ab57568 on HeLa cell  
(antibody concentration 10 ug/ml).

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



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

IHC-P - ACBD3 antibody (ab57568)



**Predicted band size : 60 kDa**  
ACBD3 antibody (ab57568) at 1ug/lane +  
HeLa cell lysate at 25ug/lane.

Western blot - ACBD3 antibody (ab57568)

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