


# Anti-Caveolin-1 antibody - N-terminal ab211503

[1 References](#) [3 Images](#)

## Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-Caveolin-1 antibody - N-terminal   |
| <b>Description</b>         | Goat polyclonal to Caveolin-1 - N-terminal  |
| <b>Host species</b>        | Goat  |
| <b>Tested applications</b> | <b>Suitable for:</b> IHC-P, WB, ICC/IF  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Mouse, Human<br><b>Predicted to work with:</b> Monkey    |
| <b>Immunogen</b>           | Recombinant fragment within Human Caveolin-1 aa 1-100 (N terminal). The exact sequence is proprietary. (NP_001744.2).<br>Database link: <a href="#">Q03135</a>  |
| <b>Positive control</b>    | HaCat, MDCK and 3T3 cell lysates; Human heart tissue; Hepa1-6 cells.  |
| <b>General notes</b>       | <p>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.</p> <p>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&amp;As</p> |

## Properties

|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| <b>Storage buffer</b>       | pH: 7.4<br>Preservative: 0.05% Sodium azide<br>Constituents: 20% Glycerol (glycerin, glycerine), 79% PBS                          |
| <b>Purity</b>               | Immunogen affinity purified   |
| <b>Clonality</b>            | Polyclonal  |
| <b>Isotype</b>              | IgG   |

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab211503 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       |           | Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. |
| WB          |           | 1/500 - 1/2000. Detects a band of approximately 25 kDa (predicted molecular weight: 20 kDa).                          |
| ICC/IF      |           | 1/25 - 1/250.   |

## Target

### Function

May act as a scaffolding protein within caveolar membranes. Interacts directly with G-protein alpha subunits and can functionally regulate their activity (By similarity). Involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell activation. Its binding to DPP4 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner. Recruits CTNNB1 to caveolar membranes and may regulate CTNNB1-mediated signaling through the Wnt pathway.

### Tissue specificity

Expressed in muscle and lung, less so in liver, brain and kidney.

### Involvement in disease

Defects in CAV1 are the cause of congenital generalized lipodystrophy type 3 (CGL3) [MIM:612526]; also called Berardinelli-Seip congenital lipodystrophy type 3 (BSCL3). Congenital generalized lipodystrophies are autosomal recessive disorders characterized by a near absence of adipose tissue, extreme insulin resistance, hypertriglyceridemia, hepatic steatosis and early onset of diabetes.

### Sequence similarities

Belongs to the caveolin family.

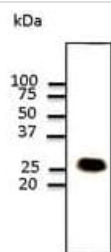
### Post-translational modifications

The initiator methionine for isoform Beta is removed during or just after translation. The new N-terminal amino acid is then N-acetylated.

### Cellular localization

Golgi apparatus membrane. Cell membrane. Membrane > caveola. Membrane raft. Colocalized with DPP4 in membrane rafts. Potential hairpin-like structure in the membrane. Membrane protein of caveolae.

## Images



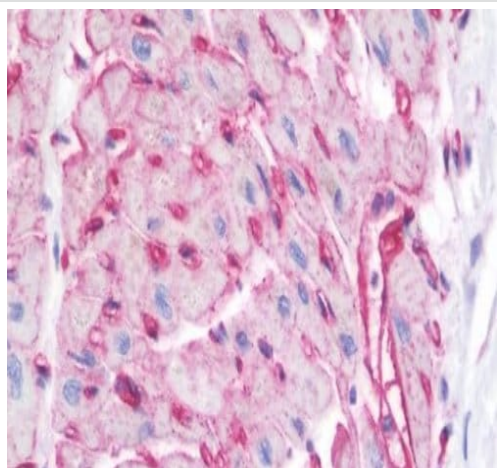
Western blot - Anti-Caveolin-1 antibody - N-terminal (ab211503)

Anti-Caveolin-1 antibody - N-terminal (ab211503) at 1/1000 dilution  
+ HaCat cell lysate at 100 µg

### Secondary

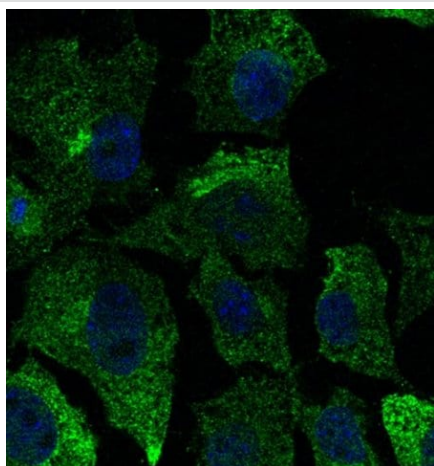
Rabbit polyclonal to goat IgG (HRP) at 1/10000 dilution

**Predicted band size:** 20 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caveolin-1 antibody - N-terminal (ab211503)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human heart tissue labeling Caveolin-1 with ab211503 at 5 µg/ml.



Immunocytochemistry/ Immunofluorescence - Anti-Caveolin-1 antibody - N-terminal (ab211503)

Immunofluorescent analysis of 4% PFA-fixed Hepa1-6 cells labeling Caveolin-1 with ab211503 at 1/50 dilution.

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

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