

Datasheet for ABIN2854651  
**anti-Caveolin-1 antibody (N-Term)**

7 Images

1 Publication

[Go to Product page](#)

## Overview

|                      |   |
|----------------------|---|
| Quantity:            | 100 µL  |
| Target:              | Caveolin-1 (CAV1)   |
| Binding Specificity: | N-Term  |
| Reactivity:          | Human   |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This Caveolin-1 antibody is un-conjugated   |
| Application:         | Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP),<br>Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC) |

## Product Details

|                   |   |
|-------------------|---|
| Immunogen:        | Carrier-protein conjugated synthetic peptide encompassing a sequence within the N-terminus region of human Caveolin 1. The exact sequence is proprietary. |
| Isotype:          | IgG   |
| Cross-Reactivity: | Human, Mouse, Rat   |
| Characteristics:  | Rabbit polyclonal antibody to Caveolin 1 (caveolin 1, caveolae protein, 22 kDa)<br>Caveolin 1 antibody [N1N3]   |
| Purification:     | Purified by antigen-affinity chromatography.  |
| Grade:            | KO Validated  |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | Caveolin-1 (CAV1)   |
| Alternative Name: | caveolin 1 ( <a href="#">CAV1 Products</a> )  |
| Background:       | <p>The scaffolding protein encoded by this gene is the main component of the caveolae plasma membranes found in most cell types. The protein links integrin subunits to the tyrosine kinase FYN, an initiating step in coupling integrins to the Ras-ERK pathway and promoting cell cycle progression. The gene is a tumor suppressor gene candidate and a negative regulator of the Ras-p42/44 MAP kinase cascade. CAV1 and CAV2 are located next to each other on chromosome 7 and express colocalizing proteins that form a stable hetero-oligomeric complex. By using alternative initiation codons in the same reading frame, two isoforms (alpha and beta) are encoded by a single transcript from this gene.</p> <p>Cellular Localization: Golgi apparatus membrane , Cell membrane , Membrane , caveola</p> |
| Molecular Weight: | 20 kDa  |
| Gene ID:          | 857   |
| UniProt:          | <a href="#">Q03135</a>  |
| Pathways:         | <a href="#">Maintenance of Protein Location</a> , <a href="#">Signaling Events mediated by VEGFR1 and VEGFR2</a> , <a href="#">Negative Regulation of Transporter Activity</a> , <a href="#">VEGFR1 Specific Signals</a>  |

## Application Details

|                    |  |
|--------------------|--|
| Application Notes: | WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. IP: 1:100-1:500. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications. |
| Comment:           | Positive Control: A431 , H1299 , HeLa , mouse lung , HeLa<br>Validation: KO/KD, Orthogonal   |
| Restrictions:      | For Research Use only  |

## Handling

|                |   |
|----------------|---|
| Format:        | Liquid  |
| Concentration: | 1 mg/mL   |
| Buffer:        | 1XPBS ( pH 7), 20 % Glycerol, 0.01 % Thimerosal |
| Preservative:  | Thimerosal (Merthiolate)                        |

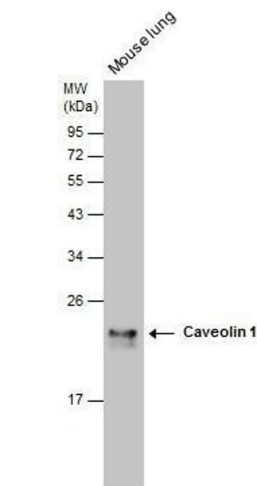
## Handling

|                    |  |
|--------------------|--|
| Precaution of Use: | This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.   |
| Storage:           | 4 °C,-20 °C  |
| Storage Comment:   | Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. |

## Publications

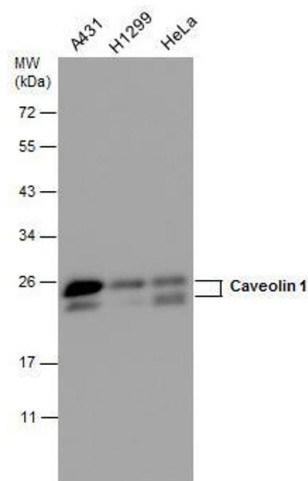
|                   |   |
|-------------------|---|
| Product cited in: | Fang, Lin, Liang, Liang: "A novel c-Kit/phospho-prohibitin axis enhances ovarian cancer stemness and chemoresistance via Notch3-PBX1 and $\beta$ -catenin-ABCG2 signaling." in: <b>Journal of biomedical science</b> , Vol. 27, Issue 1, pp. 42, (2020) ( <a href="#">PubMed</a> ). |
|-------------------|---|

## Images



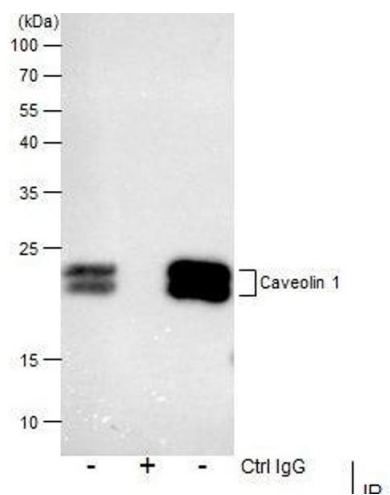
### Western Blotting

**Image 1.** WB Image Caveolin 1 antibody [N1N3] detects Caveolin 1 protein by western blot analysis. Mouse tissue extracts (50  $\mu$ g) was separated by 12% SDS-PAGE, and the membrane was blotted with Caveolin 1 antibody [N1N3] , diluted at 1:500.



### Western Blotting

**Image 2.** WB Image Caveolin 1 antibody detects Caveolin 1 protein by western blot analysis. Various whole cell extracts (30  $\mu$ g) were separated by 12% SDS-PAGE, and the membrane was blotted with Caveolin 1 antibody , diluted at a dilution of 1:500.



**Immunoprecipitation**

**Image 3.** IP Image Immunoprecipitation of Caveolin 1 protein from A549 membrane extracts using 5 µg of Caveolin 1 antibody [N1N3], Western blot analysis was performed using Caveolin 1 antibody [N1N3], EasyBlot anti-Rabbit IgG was used as a secondary reagent.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN2854651.