

## Mouse anti-Human Caveolin-1 Monoclonal Antibody | anti-CAV1 antibody

Caveolin-1

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                                 |
|-----------|-------|------------|--------------------------------------------------------------|
| AAA48294  | Mouse | Human      | Immunofluorescence, Immunocytochemistry, Western Blot, ELISA |

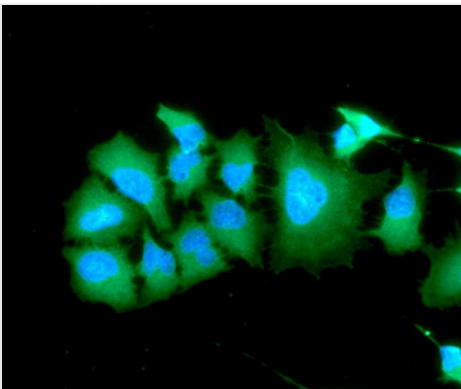
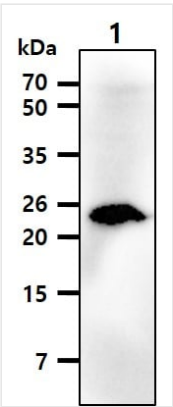
### PRODUCT SYNONYMS

Caveolin-1; Monoclonal Antibody; VIP 21; CAV; CAV 1; CAV1; caveolae protein 22 kD; caveolin 1 alpha isoform; caveolin 1 beta isoform; Caveolin 1 caveolae protein 22kDa; Caveolin1; cell growth-inhibiting protein 32; MSTP085; OTTHUMP00000025031; VIP21; anti-CAV1 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                         |
| Reactivity                                     | Human                                                                                                                                         |
| Clonality                                      | Monoclonal                                                                                                                                    |
| Isotype                                        | IgG2b kappa                                                                                                                                   |
| Clone Number                                   | AT4C1                                                                                                                                         |
| Purity/Purification                            | By protein-A affinity chromatography                                                                                                          |
| Form/Format                                    | Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol                                                           |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                                        |
| Sequence Length                                | 178                                                                                                                                           |
| Applicable Applications for anti-CAV1 antibody | IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA                                                                  |
| Immunogen                                      | Recombinant human CAV1 (1-104aa) purified from E. coli                                                                                        |
| Conjugation                                    | Unconjugated                                                                                                                                  |
| Product Note                                   | This product was produced from tissue culture supernatant.                                                                                    |
| Preparation and Storage                        | Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles. |

IMAGES



**WB (Western Blot)**  
The tissue lysate (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CAV1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.;Lane 1.: Mouse heart tissue lysate

**ICC (Immunocytochemistry)**  
ICC/IF analysis of CAV1 in A549 cells. The cell was stained (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CAV1 antibody | The identification of caveolin-1(CAV1) as the main structural component of caveolae, together with the finding that CAV1 might serve as a molecular organizer for membrane multiprotein complexes involved in cellular traffic, endo- and transcytosis, cell adhesion and signal transduction prompted a new impulse in the research on these intracellular organells. One of the properties of CAV1 was its insolubility in cold non-ionic detergents together with apical markers in epithelial cell. Also, cholesterol is essential for caveolae formation and maintenance, and caveolae structure is highly sensitive to cholesterol depletion or treatment with cholesterol binding drugs. CAV1 tightly and specifically binds free cholesterol and artificial cholesterol containing vesicles. |
| Product Categories/Family for anti-CAV1 antibody   | Cancer; Cardiovascular; Metabolism; Neuroscience; Signal Transduction; Tags & Cell Markers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| References                                         | Van Meer, G., et al. (2008) Nat Rev Mol Cell Biol. 9: 112-124;;Todeschini, R.A. et al. (2008) Biochim Biophy Acta 1780: 421-433;;Lajoie, P et al. (2007) J Cell Mol Med 11: 644-653                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

NCBI AND UNIPROT INFORMATION

|                                  |                                          |
|----------------------------------|------------------------------------------|
| NCBI GI #                        | 15451856                                 |
| NCBI GeneID                      | 857                                      |
| NCBI Accession #                 | NP_001744.2                              |
| NCBI GenBank Nucleotide #        | NP_001744.2                              |
| UniProt Accession #              | Q03135                                   |
| NCBI Official Full Name          | caveolin-1 isoform alpha                 |
| NCBI Official Synonym Full Names | caveolin 1                               |
| NCBI Official Symbol             | CAV1                                     |
| NCBI Official Synonym Symbols    | CGL3; PPH3; BSCL3; LCCNS; VIP21; MSTP085 |
| NCBI Protein Information         | caveolin-1                               |
| UniProt Protein Name             | Caveolin-1                               |
| UniProt Gene Name                | CAV1                                     |
| UniProt Synonym Gene Names       | CAV                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/caveolin-1-antibody-clone-at4c1-immunofluorescence-immunocytochemistry-western-blot-elisa/48294>