

Mouse anti-Human, Rat CAV1 Monoclonal Antibody | anti-CAV1 antibody

CAV1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48085	Mouse	Human, Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

CAV1; Monoclonal Antibody; CAV1 antibody; VIP 21; CAV; CAV 1; 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, Rat
Clonality	Monoclonal
Isotype	IgG2b, k
Clone Number	AT4C1
Purity/Purification	By protein-G 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	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human CAV1 (1-104aa) purified from E. coli
Clone Note	CAV1 mAb, clone AT4C1, is derived from hybridization of mouse FO myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human PTS protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of CAV1 in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CAV1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The 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. : Rat Brain lysate The lysates (40ug) were 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 Brain lysate Lane 2. : Mouse Heart cell lysate Lane 3. : A431 cell lysate

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	Signal Transduction
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
NCBI GenBank Nucleotide #	NM_001753.4
UniProt Accession #	Q03135; Q9UGP1; Q9UNG1; Q9UQH6
Molecular Weight	17,023 Da
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/cav1-antibody-clone-at4c1-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/48085>