

Mouse Caveolin 1 (CAV1) ELISA Kit | CAV1 elisa kit

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CATALOG #
AAA141181

REACTIVITY
Mouse

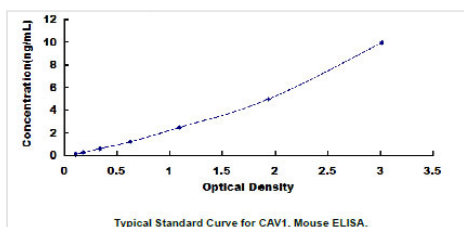
PRODUCT SYNONYMS

Caveolin 1 (CAV1); Mouse Caveolin 1 (CAV1) ELISA Kit; VIP21; Caveolae Protein 22kDa; CAV1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of CAV1. No significant cross-reactivity or interference between CAV1 and analogues was observed.
Sequence Length	113
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.057ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CAV1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CAV1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CAV1 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CAV1 in mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to CAV1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to CAV1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CAV1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of CAV1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for CAV1 elisa kit	Tumor immunity
References	Mybl2 rejuvenates heart explant-derived cells from aged donors after myocardial infarction; Aging Cell; 2020 Jul;19(7):e13174.; PMID: 32558221 ; Ghazaleh Rafatian; Department of Cellular and Molecular Medicine, University of Ottawa, Ottawa, ON, Canada.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4972627
NCBI GeneID	857
Molecular Weight	17,023 Da
NCBI Official Full Name	caveolin 1, partial
NCBI Official Synonym Full Names	caveolin 1, caveolae protein, 22kDa
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
UniProt Entry Name	CAV1_HUMAN

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://www.aaabiotech.com/mouse-elisa-kits/caveolin-1-cav1/141181>