

Datasheet for ABIN3043803
anti-Caveolin-1 antibody (AA 4-178)[Go to Product page](#)

5 Images

2 Publications

Overview

Quantity:	100 µg
Target:	Caveolin-1 (CAV1)
Binding Specificity:	AA 4-178
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Caveolin-1(CAV1) detection. Tested with WB, IHC-P, IHC-F, ICC in Human,Mouse.
Immunogen:	E.coli-derived human Caveolin-1 recombinant protein (Position: G4-I178). Human Caveolin-1 shares 95% and 94% amino acid (aa) sequences identity with mouse and rat Caveolin-1, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Caveolin-1(CAV1) detection. Tested with WB, IHC-P, IHC-F, ICC in Human,Mouse. Gene Name: caveolin 1, caveolae protein, 22 kDa Protein Name: Caveolin-1

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Caveolin-1 (CAV1)

Alternative Name: CAV1 ([CAV1 Products](#))

Background: CAV1(Caveolin-1) is a protein that in humans is encoded by the CAV1 gene. The CAV1 gene is mapped to 7q31.2. 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.

Synonyms: BSCL3 antibody|CAV 1 antibody|CAV antibody|CAV1 antibody|CAV1_HUMAN antibody|caveolae protein, 22 kD antibody|caveolin 1 alpha isoform antibody|caveolin 1 beta isoform antibody|Caveolin 1 caveolae protein 22 kDa antibody|Caveolin-1 antibody|Caveolin1 antibody|cell growth-inhibiting protein 32 antibody|CGL3 antibody|LCCNS antibody|MSTP085 antibody|OTTHUMP00000025031 antibody|PPH3 antibody|VIP 21 antibody|VIP 21 antibody|VIP21 antibody

Gene ID: 857

UniProt: [Q03135](#)

Pathways: [Maintenance of Protein Location](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Negative Regulation of Transporter Activity](#), [VEGFR1 Specific Signals](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for Caveolin-1 is approximately 0.25 ng/lane under reducing conditions.

IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.

IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse

Application Details

ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human

Notes: Tested Species: Species with positive results. Other applications have not been tested.

Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and IHC(F) and ICC.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

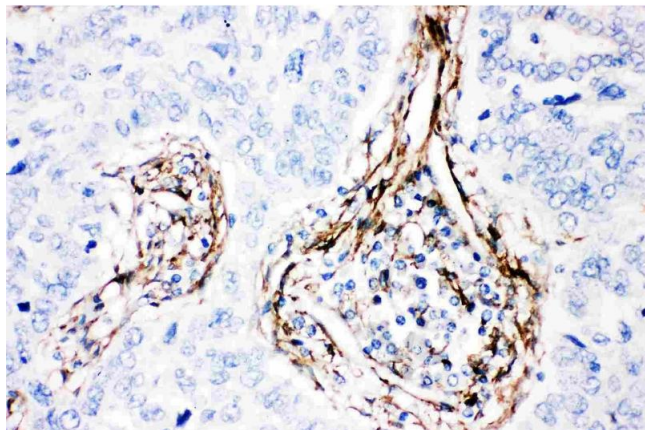
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: Lang, Schulte, Goddard, Hedrick, Schulte, Wei, Schmiedt: "Transplantation of mouse embryonic stem cells into the cochlea of an auditory-neuropathy animal model: effects of timing after injury." in: **Journal of the Association for Research in Otolaryngology : JARO**, Vol. 9, Issue 2, pp. 225-40, (2008) ([PubMed](#)).

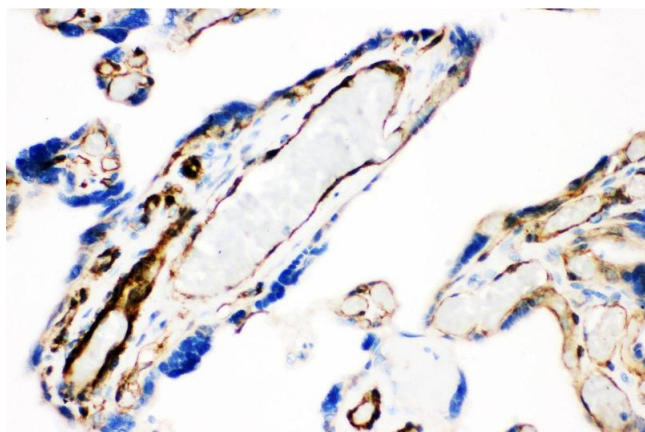
Lang, Ebihara, Schmiedt, Minamiguchi, Zhou, Smythe, Liu, Ogawa, Schulte: "Contribution of bone marrow hematopoietic stem cells to adult mouse inner ear: mesenchymal cells and fibrocytes." in: **The Journal of comparative neurology**, Vol. 496, Issue 2, pp. 187-201, (2006) ([PubMed](#)).

Validation report #300029 for Immunohistochemistry (IHC)



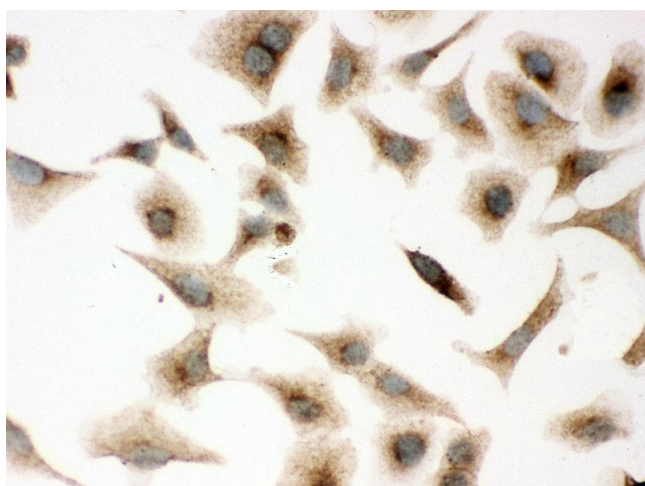
Immunohistochemistry

Image 1. Anti- Caveolin-1 picoband antibody, IHC(P):
Human Lung Cancer Tissue



Immunohistochemistry

Image 2. Anti- Caveolin-1 picoband antibody, IHC(P) IHC(P):
Human Placenta Tissue



Immunohistochemistry

Image 3. Anti- Caveolin-1 picoband antibody, ICC ICC: A549
Cell

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3043803.