

Anti-Caveolin 1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

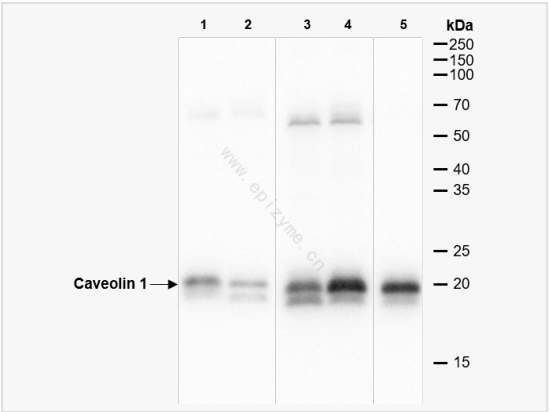
Catalog # R010327

Product Information

Application	ELISA, WB, IHC-P/IF (Tissue-P)
Reactivity	Human, Mouse
Dilution	WB 1:1,000~1:4,000; 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	23M64M06
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Caveolin-1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Caveolin 1 Rabbit mAb [23M64M06] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	BSCL3, CAV, CAV1, CAV1_HUMAN, caveolae protein, 22 kD, caveolin 1 alpha isoform, caveolin 1 beta isoform, Caveolin 1 caveolae protein 22kDa, Caveolin-1, Caveolin1, cell growth-inhibiting protein 32, CGL3, LCCNS, MSTP085, OTTHUMP00000025031, PPH3, VIP 21, VIP21.
Calculated MW	Calculated MW: 20 kDa; Observed MW: 20 kDa
Uniprot ID	Q03135
Gene ID	857
Background	Caveolin-1 may act as a scaffolding protein within caveolar membranes. Interacts directly with G-protein alpha subunits and can functionally regulate their activity (By similarity). Involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell activation. Its binding to DPP4 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner. Recruits CTNNB1 to caveolar membranes and may regulate CTNNB1-mediated signaling through the Wnt pathway.
Cellular Location	Golgi apparatus membrane. Cell membrane. Membrane > caveola. Membrane raft. Colocalized with DPP4 in membrane rafts. Potential hairpin-like structure in the membrane. Membrane protein of caveolae.
Tissue Location	Expressed in muscle and lung, less so in liver, brain and kidney.



Western Blot - Anti-Caveolin 1 Rabbit mAb [23M64M06]

All lanes: R010327 at 1:4,000 dilution

Lane 1: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: A549 (human non-small cell lung cancer epithelial cell) whole cell lysates

Lane 3: HCT116 (human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: T24 (human bladder cancer epithelial cell) whole cell lysates

Lane 5: SCC-9 (human tongue squamous carcinoma epithelial cell) whole cell lysates

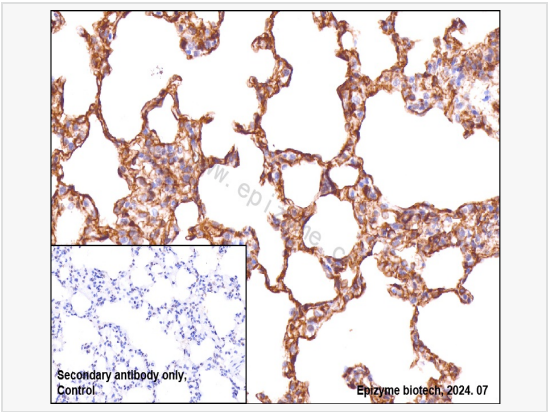
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 20 kDa

Observed band size: 20 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Caveolin 1 Rabbit mAb [23M64M06]

Sample: Paraformaldehyde-fixed, paraffin embedded rat lung tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R010327 at 1:200 dilution

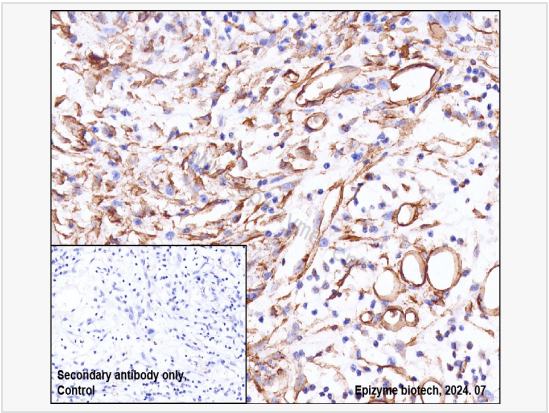
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Caveolin 1 Rabbit mAb [23M64M06]

Sample: Paraformaldehyde-fixed, paraffin embedded human breast carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R010327 at 1:200 dilution

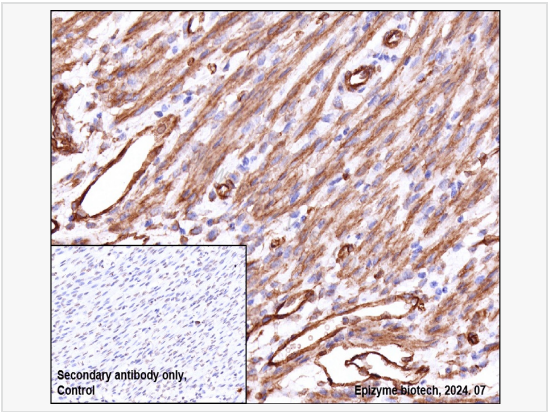
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Caveolin 1 Rabbit mAb [23M64M06]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse uterus tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R010327 at 1:200 dilution

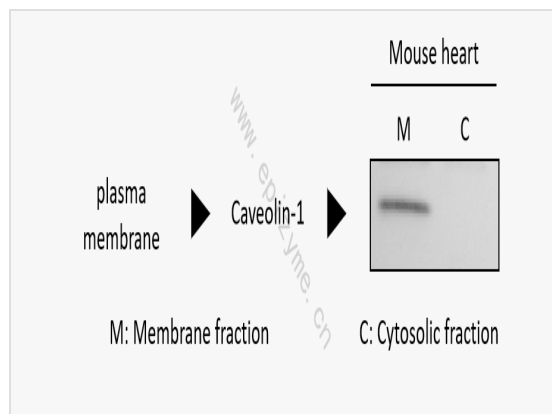
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Western Blot - Anti-Caveolin 1 Rabbit mAb [23M64M06]

All lanes: R010327 at 1:1,000 dilution

Cytosolic and membrane protein were extracted using Membrane and Cytosol Protein Extraction Kit (Cat. No. PC202),

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Developed using the ECL technique (Cat. No. SQ201).