Data Sheet (Cat.No.TMAC-00623)

TargetMol

Anti-CAV1 Antibody (1U205)

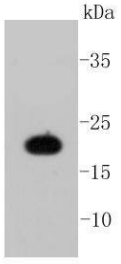
Product Details

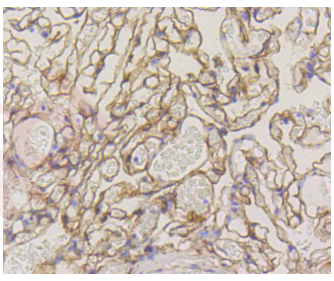
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 20 kDa.
Clone:	1U205
Purification:	ProA affinity purified

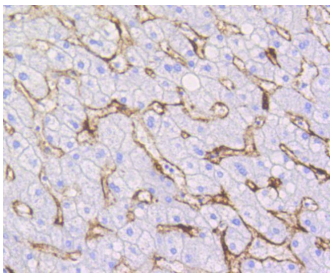
Applications

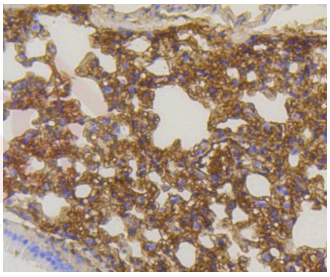
Verified Activity:

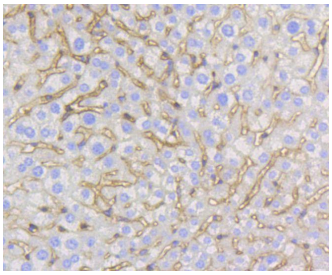
1. Western blot analysis of Caveolin-1 on A431 cell lysates using anti-Caveolin-1 antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human lung tissue using anti-Caveolin-1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Caveolin-1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse lung tissue using anti-Caveolin-1 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-Caveolin-1 antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-Caveolin-1 antibody. Counter stained with hematoxylin.
7. ICC staining Caveolin-1 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining Caveolin-1 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. ICC staining Caveolin-1 in NIH/3T3 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

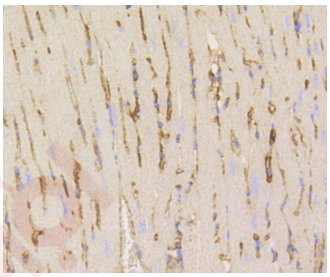


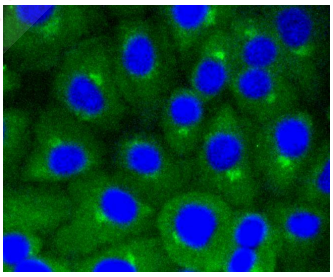


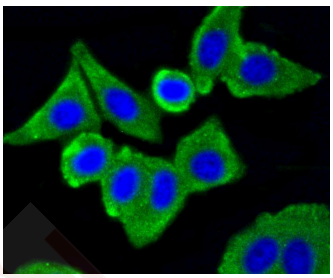


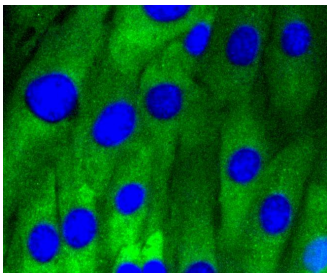












Application:	ICC/IF,IHC,WB
Recommended	WB: 1:1000-5000; IHC: 1:50-200; ICC/IF: 1:50-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q03135
Synonyms:	CAV 1;CAV;VIP21;Caveolin1;caveolin 1 alpha isoform;BSCL3;OTTHUMP00000025031;caveolin 1 beta isoform;MSTP085;Caveolin 1 caveolae protein 22kDa;caveolae protein, 22 kD;PPH3;cell growth-inhibiting protein 32;VIP 21;Caveolin-1;LCCNS;CGL3

Research Background

Caveolae (also known as plasmalemmal vesicles) are 50-100 nM flask-shaped membranes that represent a subcompartment of the plasma membrane. On the basis of morphological studies, caveolae have been implicated to function in the transcytosis of various macromolecules (including LDL) across capillary endothelial cells, uptake of small molecules via potocytosis and the compartmentalization of certain signaling molecules including G protein-coupled receptors. Three proteins, caveolin-1, caveolin-2 and caveolin-3, have been identified as principal components of caveolae. Two forms of caveolin-1, designated alpha and beta, share a distinct but overlapping cellular distribution and differ by an amino terminal 31 amino acid sequence which is absent from the beta isoform. Caveolin-1 shares 31% identity with caveolin-2 and 65% identity with caveolin-3 at the amino acid level. Functionally, the three proteins differ in their interactions with heterotrimeric G protein isoforms.

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