Anti-Caveolin-3 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014034

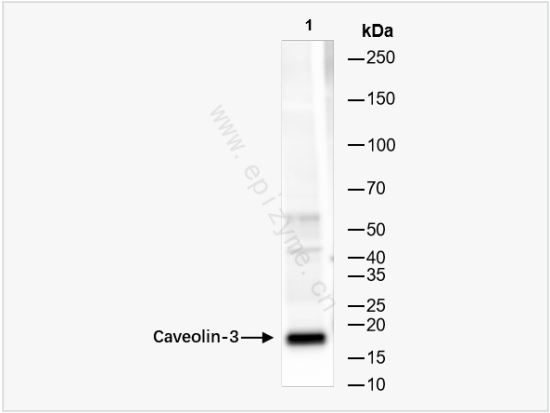
Product Information

Application	IF (Cell)/ICC, ELISA, WB, IHC-P/IF (Tissue-P)
Reactivity	Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	10C91K80
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Caveolin-3
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-3 Rabbit mAb [10C91K80] is for research use only and not for use in diagnostic or therapeutic procedures.

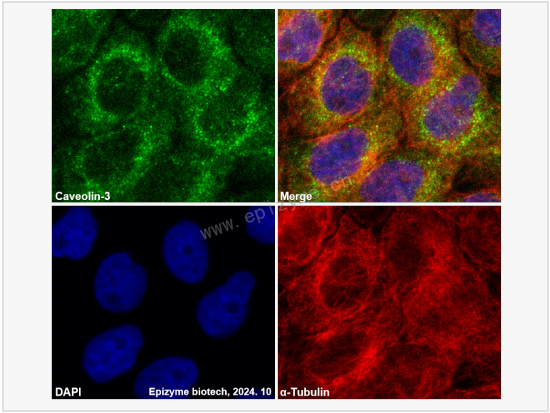
Protein Information

Synonyms	CAV3, CAV3_HUMAN, Caveolin 3, Caveolin-3, LGMD1C, LQT9, M-caveolin, MGC126100, MGC126101, MGC126129, OTTHUMP00000115603, OTTHUMP00000207105, VIP 21, VIP21.
Calculated MW	Calculated MW: 17 kDa; Observed MW: 17 kDa
Uniprot ID	P56539
Background	Caveolin-3 may act as a scaffolding protein within caveolar membranes. Interacts directly with G-protein alpha subunits and can functionally regulate their activity. Plays a role in the sarcolemma repair mechanism of both skeletal muscle and cardiomyocytes that permits rapid resealing of membranes disrupted by mechanical stress.
Cellular Location	Golgi apparatus membrane. Cell membrane. Membrane > caveola. Potential hairpin-like structure in the membrane. Membrane protein of caveolae.
Tissue Location	Expressed predominantly in muscle.

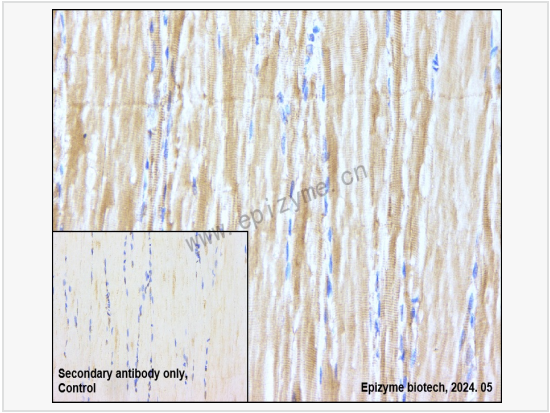
Validation Images



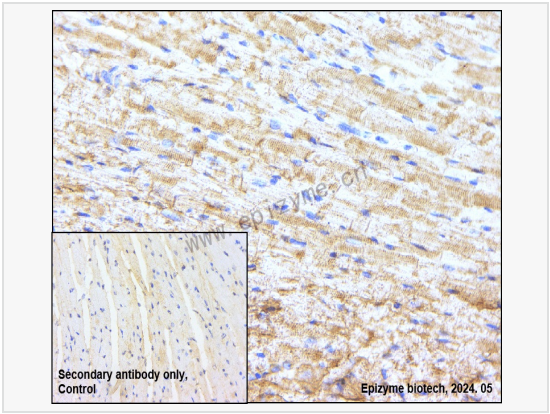
Western Blot - Anti-Caveolin-3 Rabbit mAb [10C91K80]
All lanes: R014034 at 1:1,000 dilution
Lane 1: Mouse heart whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 17 kDa
Observed band size: 17 kDa
Developed using the ECL technique (Cat. No. SQ201).



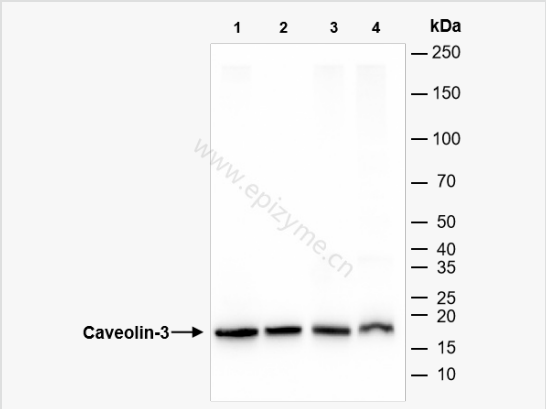
Immunofluorescence - Anti-Caveolin-3 Rabbit mAb [10C91K80]
Sample: A431 cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R014034 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-Caveolin-3 Rabbit mAb [10C91K80]
Sample: Paraformaldehyde-fixed, paraffin embedded rat muscle tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014034 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-3 Rabbit mAb [10C91K80]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse heart tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014034 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-3 Rabbit mAb [10C91K80]
All lanes: R014034 at 1:1,000 dilution
Lane 1: Rat heart whole tissue lysates
Lane 2: Rat muscle whole tissue lysates
Lane 3: Mouse heart whole tissue lysates
Lane 4: Mouse muscle whole tissue 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: 17 kDa
Observed band size: 17 kDa
Developed using the ECL technique (Cat. No. SQ201).