



Rabbit Anti-Caveolin-3 antibody

SL23457R

Product Name:	Caveolin-3
Chinese Name:	细胞质膜微囊蛋白-3抗体
Alias:	CAV 3; CAV3; Caveolin3; Caveolin 3; LGMD1C; M caveolin; VIP 21; VIP21; AI385751; Cav-3; caveolin-3; M-cav; M-caveolin; CAV3_MOUSE.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	17kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Caveolin-3 :1-80/151
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Caveolae are specialized domains of the plasma membrane that are implicated in the sequestration of a variety of lipid and protein molecules. It has been suggested that these important cellular organelles have a pivotal role in such diverse biochemical processes as lipid metabolism, growth regulation, signal transduction, and apoptosis. Caveolin interacts with and regulates heterotrimeric G-proteins. Currently, there are three members of the caveolin multigene family which are integral membrane proteins that

comprise the major structural component of the caveolar membrane in vivo. Caveolin-2 protein is abundantly expressed in fibroblasts and differentiated adipocytes, smooth and skeletal muscle, and endothelial cells. The expression of caveolin-1 is similar to that of caveolin-2 while caveolin-3 expression appears to be limited to muscle tissue types.

Function:

May act as a scaffolding protein within caveolar membranes. Interacts directly with G-protein alpha subunits and can functionally regulate their activity. May also regulate voltage-gated potassium channels. Plays a role in the sarcolemma repair mechanism of both skeletal muscle and cardiomyocytes that permits rapid resealing of membranes disrupted by mechanical stress.

Subunit:

Homooligomer (By similarity). Interacts with DYSF. Interacts with DLG1 and KCNA5; forms a ternary complex. Interacts with DAG1 (via its C-terminal); the interaction prevents binding of DAG1 with DMD (By similarity). Interacts with TRIM72. Interacts with MUSK; may regulate MUSK signaling.

Subcellular Location:

Golgi apparatus membrane; Peripheral membrane protein (By similarity). Cell membrane; Peripheral membrane protein (By similarity). Membrane, caveola; Peripheral membrane protein (By similarity). Note=Potential hairpin-like structure in the membrane. Membrane protein of caveolae (By similarity).

Tissue Specificity:

Expressed predominantly in muscle.

Post-translational modifications:

Sumoylation with SUMO3 by PIAS4 may reduce agonist-induced internalization and desensitization of adrenergic receptor ABRD2 (By similarity).

Similarity:

Belongs to the caveolin family.

SWISS:

P56539

Gene ID:

859

Database links:

[Entrez Gene: 859](#) Human

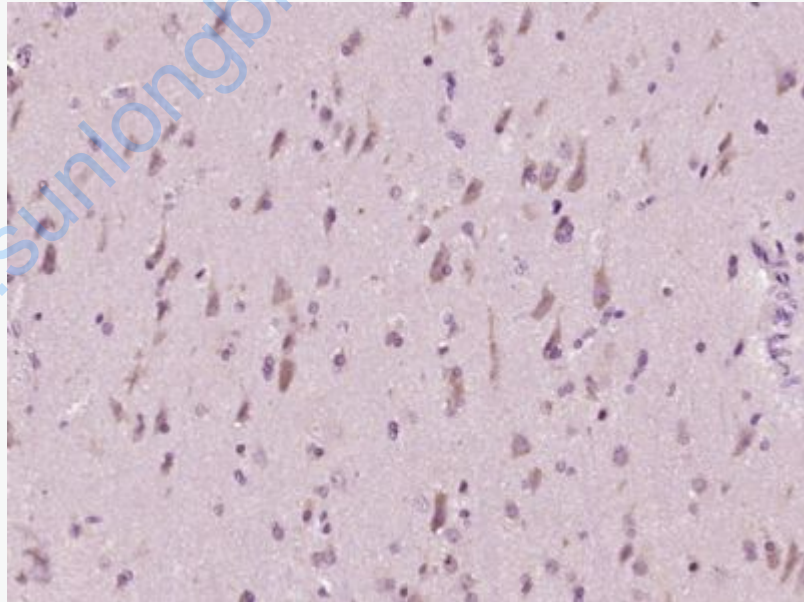
[Entrez Gene: 12391](#) Mouse

[Entrez Gene: 29161](#) Rat
[Omin: 601253](#) Human
[SwissProt: P56539](#) Human
[SwissProt: P51637](#) Mouse
[SwissProt: P51638](#) Rat
[Unigene: 98303](#) Human
[Unigene: 3924](#) Mouse
[Unigene: 98191](#) Rat

Important Note:

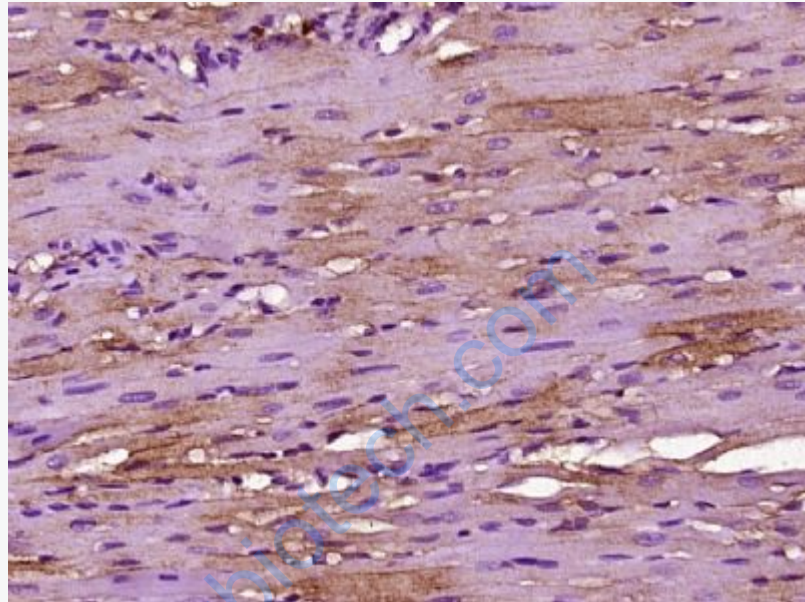
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Picture:



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Caveolin-3) Polyclonal

Antibody, Unconjugated (SL23457R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat heart tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Caveolin-3) Polyclonal Antibody, Unconjugated (SL23457R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.