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Caveolin 3 Recombinant Rabbit mAb

Catalog # AP100009

Product Information

Application	WB, IHC-P, IHC-F, IF, IP
Primary Accession	P56539
Other Accession	P56539
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	17259
Physical State	Liquid
Immunogen	A synthesized peptide derived from human Caveolin 3
Epitope Specificity	1-75
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Belongs to the caveolin family.
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.
Post-translational modifications	Sumoylation with SUMO3 by PIAS4 may reduce agonist-induced internalization and desensitization of adrenergic receptor ABRD2 (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	859
Other Names	LGMD1C; LQT9; MPDT; RMD2; VIP-21; VIP21; Cav-3; M-cav; CAV3_HUMAN; CAV3; M-caveolin; CAV3_MOUSE; CAV3_RAT; caveolin 3
Dilution	WB=1:500-2000,IHC-P=1:50-200,IHC-F=1:50-200,IP=1:20-50,IF=1:50-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	CAV3
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 (By similarity). Mediates the recruitment of CAVIN2 and CAVIN3 proteins to the caveolae (PubMed:19262564).
Cellular Location	Golgi apparatus membrane; Peripheral membrane protein. Cell membrane {ECO:0000250|UniProtKB:P51638}; Peripheral membrane protein. Membrane, caveola {ECO:0000250|UniProtKB:P51637}; Peripheral membrane protein. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:P51637}. Note=Potential hairpin-like structure in the membrane. Membrane protein of caveolae (By similarity)
Tissue Location	Expressed predominantly in muscle.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.