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CMYA2/PDE4DIP Rabbit pAb

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Catalog # AP59263

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q5VU43
Predicted	Human, Mouse, Rat, Chicken, Dog, Pig, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	265103
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CMYA2/PDE4DIP
Epitope Specificity	1501-1600/2365
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Golgi apparatus (By similarity). Cytoplasm,cytoskeleton, centrosome (By similarity). Cytoplasm. Nucleus.
SIMILARITY	Contains 1 NBPF domain.
SUBUNIT	Interacts with PDE4D (By similarity).
DISEASE	Note=A chromosomal aberration involving PDE4DIP may bethe cause of a myeloproliferative disorder (MBD) associated witheosinophilia. Translocation t(1;5)(q23;q33) that forms aPDE4DIP-PDGFRB fusion protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	May function as an anchor sequestering components of the cAMP-dependent pathway to Golgi and/or centrosomes. Myomegalin, is a 2,346 amino acid protein that contains one NBPF domain and localizes to the nucleus, cytoplasm, centrosome and Golgi apparatus. Expressed at high levels in fetal and adult heart and at lower levels in brain and placenta, myomegalin is thought to function as an anchoring protein that sequesters members of the cAMP-dependent pathway to the Golgi and to centrosomes, thereby mediating cAMP pathway dynamics. Translocations in the gene that encodes myomegalin are associated with myeloproliferative disorders (MBDs), a group of diseases caused by an overproduction of blood cells. Myomegalin exists as twelve isoforms due to alternative splicing events.

Additional Information

Gene ID	9659
Other Names	Myomegalin, Cardiomyopathy-associated protein 2, Phosphodiesterase 4D-interacting protein, PDE4DIP, CMYA2, KIAA0454, KIAA0477, MMGL
Target/Specificity	Highly expressed in heart and skeletal muscle and to a lower extent in brain

	and placenta.
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	PDE4DIP
Synonyms	CMYA2, KIAA0454, KIAA0477, MMGL
Function	Functions as an anchor sequestering components of the cAMP- dependent pathway to Golgi and/or centrosomes (By similarity).
Cellular Location	Golgi apparatus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome {ECO:0000250|UniProtKB:Q9WUJ3}
Tissue Location	Highly expressed in adult and fetal heart, in skeletal muscle and, to a lower extent, in brain and placenta

Background

May function as an anchor sequestering components of the cAMP-dependent pathway to Golgi and/or centrosomes.
Myomegalin, is a 2,346 amino acid protein that contains one NBPF domain and localizes to the nucleus, cytoplasm, centrosome and Golgi apparatus. Expressed at high levels in fetal and adult heart and at lower levels in brain and placenta, myomegalin is thought to function as an anchoring protein that sequesters members of the cAMP-dependent pathway to the Golgi and to centrosomes, thereby mediating cAMP pathway dynamics. Translocations in the gene that encodes myomegalin are associated with myeloproliferative disorders (MBDs), a group of diseases caused by an overproduction of blood cells. Myomegalin exists as twelve isoforms due to alternative splicing events.