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AKAP2/PALM2 Rabbit pAb

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Catalog # AP59111

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9Y2D5
Reactivity	Human
Predicted	Pig, Mouse, Rabbit, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	122071
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human AKAP2
Epitope Specificity	151-250/859
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	AKAP2 binds to regulatory subunit (RII) of protein kinase A and can be differentially expressed as a natural AKAP2-PALM2 chimeric protein. It may be involved in establishing polarity in signaling systems or in integrating PKA-RII isoforms with downstream effectors to capture, amplify and focus diffuse, trans-cellular signals carried by cAMP. There are 2 named isoforms produced by alternative splicing.

Additional Information

Gene ID	445815
Other Names	PALM2-AKAP2 fusion protein, A-kinase anchor protein 2, AKAP-2, AKAP-KL, Paralemmin A kinase anchor protein, Paralemmin-2, Protein kinase A-anchoring protein 2, PRKA2, PALM2AKAP2 (HGNC:33529)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=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	PALM2AKAP2 (HGNC:33529)
Function	Binds to regulatory subunit (RII) of protein kinase A. May be involved in establishing polarity in signaling systems or in integrating PKA-RII isoforms with downstream effectors to capture, amplify and focus diffuse, trans-cellular signals carried by cAMP. Binds to and modulates the structure of the actin cytoskeleton.
Cellular Location	Apical cell membrane {ECO:0000250|UniProtKB:O54931}; Lipid-anchor, GPI-like-anchor {ECO:0000250|UniProtKB:O54931}; Cytoplasmic side {ECO:0000250|UniProtKB:O54931}. Note=Accumulates near the inner, apical surface of highly polarized epithelium in tubules of nephrons {ECO:0000250|UniProtKB:O54931}
Tissue Location	[Isoform 6]: Expressed in infantile heart and muscle, and fibroblasts.

Background

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