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AKAP12 Rabbit pAb

Catalog # AP96525

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q02952
Other Accession	Q02952
Reactivity	Rat, Human, Mouse
Predicted	Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	191482
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human AKAP12
Epitope Specificity	701-900/1684
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 3 AKAP domains.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins, which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. The encoded protein is expressed in endothelial cells, cultured fibroblasts, and osteosarcoma cells. It associates with protein kinases A and C and phosphatase, and serves as a scaffold protein in signal transduction. This protein and RII PKA colocalize at the cell periphery. This protein is a cell growth-related protein. Antibodies to this protein can be produced by patients with myasthenia gravis. Alternative splicing of this gene results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	9590
Other Names	AKAP250; SSeCKS; AKA12_HUMAN; AKAP12; AKAP-12; A-kinase anchor protein 250 kDa (AKAP 250); Gravin; Myasthenia gravis autoantigen; A-kinase anchoring protein 12; A kinase (PRKA) anchor protein (gravin) 12; A kinase (PRKA) anchor protein 12; Src-Suppressed C Kinase Substrate
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:200-800

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	AKAP12
Synonyms	AKAP250
Function	Anchoring protein that mediates the subcellular compartmentation of protein kinase A (PKA) and protein kinase C (PKC).
Cellular Location	Cytoplasm, cell cortex. Cytoplasm, cytoskeleton. Membrane; Lipid-anchor. Note=May be part of the cortical cytoskeleton
Tissue Location	Expressed in endothelial cells, cultured fibroblasts and osteosarcoma, but not in platelets, leukocytes, monocytic cell lines or peripherical blood cells

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