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PRKCDBP Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7787c

Product Information

Application	WB, E
Primary Accession	Q969G5
Reactivity	Human
Predicted	Rat, Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15665
Calculated MW	27701
Antigen Region	113-144

Additional Information

Gene ID	112464
Other Names	Protein kinase C delta-binding protein, Cavin-3, Serum deprivation response factor-related gene product that binds to C-kinase, hSRBC, PRKCDBP, SRBC
Target/Specificity	This PRKCDBP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 113-144 amino acids from the Central region of human PRKCDBP.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PRKCDBP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CAVIN3 (HGNC:9400)
Synonyms	PRKCDBP, SRBC
Function	Regulates the traffic and/or budding of caveolae (PubMed: 19262564). Plays

	a role in caveola formation in a tissue- specific manner. Required for the formation of caveolae in smooth muscle but not in the lung and heart endothelial cells. Regulates the equilibrium between cell surface-associated and cell surface- dissociated caveolae by promoting the rapid release of caveolae from the cell surface. Plays a role in the regulation of the circadian clock. Modulates the period length and phase of circadian gene expression and also regulates expression and interaction of the core clock components PER1/2 and CRY1/2 (By similarity).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:Q91VJ2}. Membrane, caveola. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q91VJ2}. Note=Localizes in the caveolae in a caveolin-dependent manner.
Tissue Location	Skeletal muscle, liver, stomach, lung, kidney and heart (at protein level). Strongly expressed in mammary and epithelial cells.

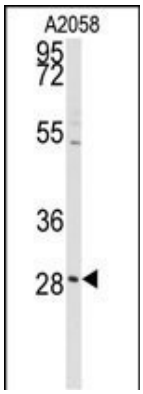
Background

PRKCDBP was identified as a binding protein of the protein kinase C, delta (PRKCD). The expression of this protein in cultured cell lines is strongly induced by serum starvation, and was found to be down-regulated in various cancer cell lines, suggesting the possible tumor suppressor function of this protein.

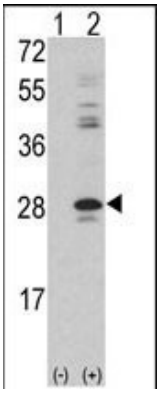
References

Lee,J.H., Int. J. Cancer 122 (7), 1573-1584 (2008)
Zochbauer-Muller,S., Oncogene 24 (41), 6249-6255 (2005)
Xu,X.L., Cancer Res. 61 (21), 7943-7949 (2001)

Images



Western blot analysis of anti-PRKCDBP Antibody (Center) (Cat.#AP7787c) in A2058 cell line lysates (35ug/lane). PRKCDBP (arrow) was detected using the purified Pab.



Western blot analysis of PRKCDBP (arrow) using rabbit polyclonal PRKCDBP Antibody (Center) (Cat. #AP7787c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PRKCDBP gene (Lane 2) (Origene Technologies).

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