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PKP4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20495b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q99569
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	131868
Antigen Region	1040-1068

Additional Information

Gene ID	8502
Other Names	Plakophilin-4, p0071, PKP4
Target/Specificity	This PKP4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1040-1068 amino acids from the C-terminal region of human PKP4.
Dilution	WB~~1:1000 IHC-P~~1:100 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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	PKP4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PKP4
Function	Plays a role as a regulator of Rho activity during cytokinesis. May play a role in junctional plaques.
Cellular Location	Cell junction, desmosome. Cytoplasm, cytoskeleton, spindle. Midbody Cell membrane; Peripheral membrane protein. Note=Associated with the

	pericentrosomal region in interphase and with spindle poles during mitosis. In anaphase, during chromosome segregation, is recruited to the central microtubule bundle, focussed at the spindle midzone and ultimately localizes to the midbody at cytokinesis. Constituent of the midbody cytoskeletal matrix. Colocalized with desmoplakin at desmosomal junctional plaques in cultured epithelial cells
Tissue Location	Expressed in salivary glands (at protein level) (PubMed:30479852). Expressed in arrector pili muscle (at protein level) (PubMed:29034528).

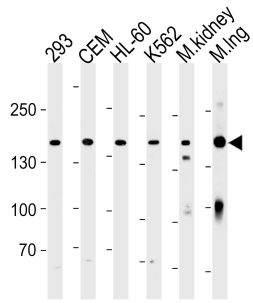
Background

Plays a role as a regulator of Rho activity during cytokinesis. May play a role in junctional plaques.

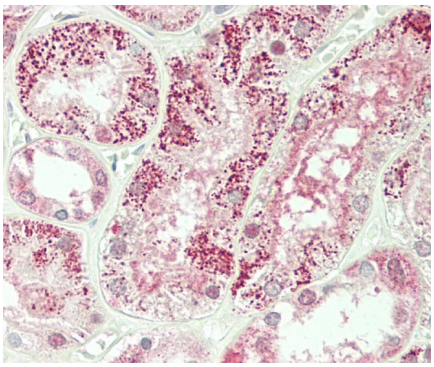
References

Hatzfeld M., et al. J. Cell Sci. 109:2767-2778(1996).
Hillier L.W., et al. Nature 434:724-731(2005).
Salomon A.R., et al. Proc. Natl. Acad. Sci. U.S.A. 100:443-448(2003).
Zhang Y., et al. Mol. Cell. Proteomics 4:1240-1250(2005).
Tao W.A., et al. Nat. Methods 2:591-598(2005).

Images



PKP4 Antibody (C-term) (Cat. #AP20495b) western blot analysis in 293,CEM,HL-60,K562 cell line and mouse kidney,lung tissue lysates (35ug/lane).This demonstrates the PKP4 antibody detected the PKP4 protein (arrow).



Formalin-fixed and paraffin-embedded H.kidney tissue reacted with PKP4 Antibody (C-term) (Cat#AP20495b).

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