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Anti-AKAP10 Antibody

Catalog # AP60093

Product Information

Application	WB, IHC, IF/IC
Primary Accession	O43572
Reactivity	Human, Mouse, Rat, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73818

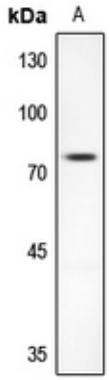
Additional Information

Gene ID	11216
Other Names	A-kinase anchor protein 10 mitochondrial; AKAP-10; Dual specificity A kinase-anchoring protein 2; D-AKAP-2; Protein kinase A-anchoring protein 10; PRKA10
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human AKAP10. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

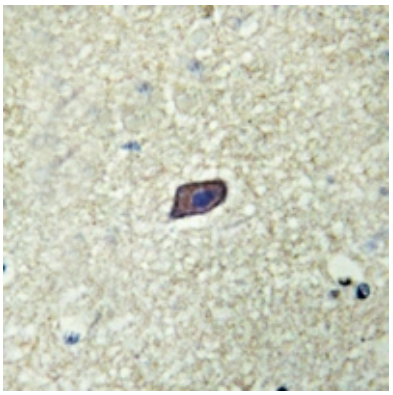
Protein Information

Name	AKAP10
Function	Differentially targeted protein that binds to type I and II regulatory subunits of protein kinase A and anchors them to the mitochondria or the plasma membrane. Although the physiological relevance between PKA and AKAPS with mitochondria is not fully understood, one idea is that BAD, a proapoptotic member, is phosphorylated and inactivated by mitochondria-anchored PKA. It cannot be excluded too that it may facilitate PKA as well as G protein signal transduction, by acting as an adapter for assembling multiprotein complexes. With its RGS domain, it could lead to the interaction to G- alpha proteins, providing a link between the signaling machinery and the downstream kinase (By similarity).
Cellular Location	Mitochondrion. Membrane. Cytoplasm. Note=Predominantly mitochondrial but also membrane associated and cytoplasmic

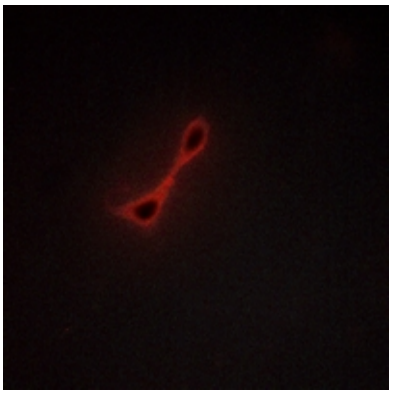
Images



Western blot analysis of AKAP10 expression in rat kidney (A) whole cell lysates. (Predicted band size: 73 kD; Observed band size: 74 kD)



Immunohistochemical analysis of AKAP10 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of AKAP10 staining in NIH-3T3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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