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AKAP10 Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant AKAP10.
Catalog # AT1082a

Product Information

Application	WB, IHC, E
Primary Accession	O43572
Other Accession	NM_007202
Reactivity	Human, Mouse
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	8C10
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, AKAP10
Target/Specificity	AKAP10 (NP_009133, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	AKAP10 Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

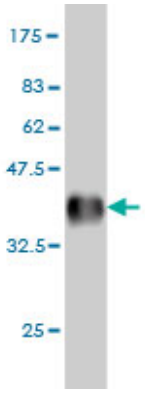
Background

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 interacts with both the type I and type II regulatory subunits of PKA; therefore, it is a dual-specific AKAP. This protein is highly enriched in mitochondria. It contains RGS (regulator of G protein signalling) domains, in addition to a PKA-RII subunit-binding domain. The mitochondrial localization and the presence of RGS domains may have important implications for the function of this protein in PKA and G protein signal transduction.

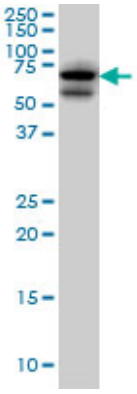
References

1.D-AKAP2 interacts with Rab4 and Rab11 through its RGS domains and regulates transferrin receptor recycling.Eggers CT, Schafer JC, Goldenring JR, Taylor SS.J Biol Chem. 2009 Nov 20;284(47):32869-80. Epub 2009 Sep 21.

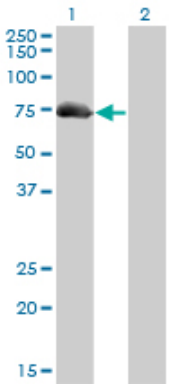
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .

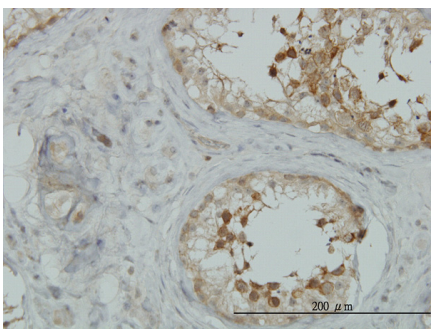


AKAP10 monoclonal antibody (M04), clone 8C10. Western Blot analysis of AKAP10 expression in Raw 264.7.

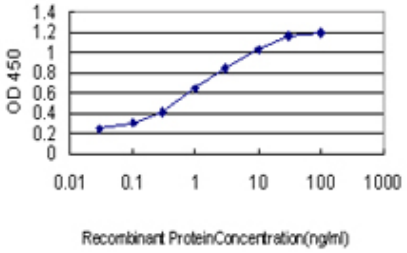


Western Blot analysis of AKAP10 expression in transfected 293T cell line by AKAP10 monoclonal antibody (M04), clone 8C10.

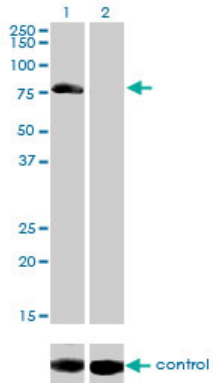
Lane 1: AKAP10 transfected lysate(73.8 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to AKAP10 on formalin-fixed paraffin-embedded human testis. [antibody concentration 0.5 ug/ml]



Detection limit for recombinant GST tagged AKAP10 is approximately 0.03ng/ml as a capture antibody.



Western blot analysis of AKAP10 over-expressed 293 cell line, cotransfected with AKAP10 Validated Chimera RNAi ((Cat # AT1082a)

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