10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

AKAP8 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant AKAP8.
Catalog # AT1089a

Product Information

Application	WB, IHC, IF, IP, E
Primary Accession	O43823
Other Accession	NM_005858
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3D4
Calculated MW	76108

Additional Information

Gene ID	10270
Other Names	A-kinase anchor protein 8, AKAP-8, A-kinase anchor protein 95 kDa, AKAP 95, AKAP8, AKAP95
Target/Specificity	AKAP8 (NP_005849, 551 a.a. ~ 662 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 IF~~1:50~200 IP~~N/A 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	AKAP8 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

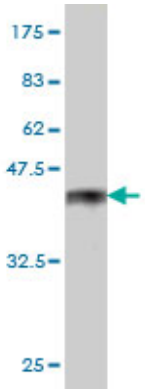
The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins, which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. The encoded protein is located in the nucleus during interphase and is distinctly redistributed during mitosis. This protein has a cell cycle-dependent interaction with the RII subunit of PKA.

References

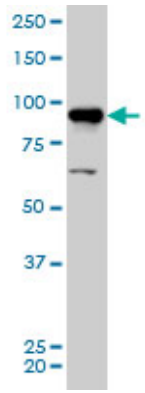
Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar.

PMID 18029348.Global, in vivo, and site-specific phosphorylation dynamics in signaling networks. Olsen JV, et al. Cell, 2006 Nov 3. PMID 17081983.A probability-based approach for high-throughput protein phosphorylation analysis and site localization. Beausoleil SA, et al. Nat Biotechnol, 2006 Oct. PMID 16964243.A-kinase-anchoring protein 95 functions as a potential carrier for the nuclear translocation of active caspase 3 through an enzyme-substrate-like association. Kamada S, et al. Mol Cell Biol, 2005 Nov. PMID 16227597.Large-scale characterization of HeLa cell nuclear phosphoproteins. Beausoleil SA, et al. Proc Natl Acad Sci U S A, 2004 Aug 17. PMID 15302935.

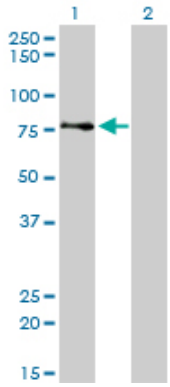
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (38.06 KDa) .

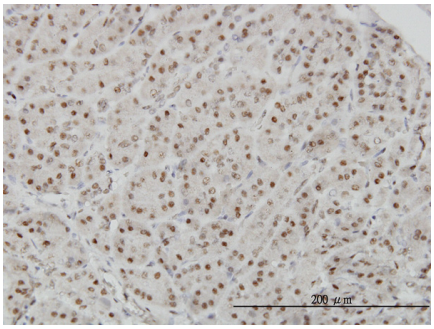


AKAP8 monoclonal antibody (M01), clone 3D4 Western Blot analysis of AKAP8 expression in Hela S3 NE ((Cat # AT1089a)

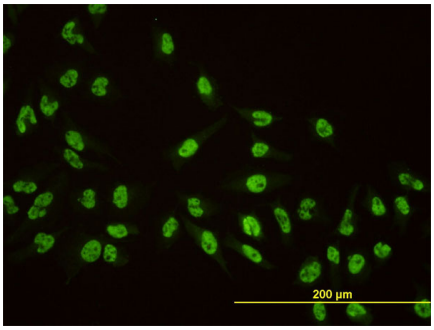


Western Blot analysis of AKAP8 expression in transfected 293T cell line by AKAP8 monoclonal antibody (M01), clone 3D4.

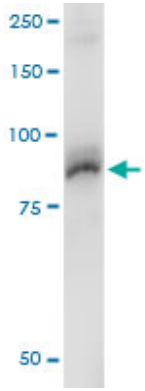
Lane 1: AKAP8 transfected lysate(76.2 KDa).
Lane 2: Non-transfected lysate.



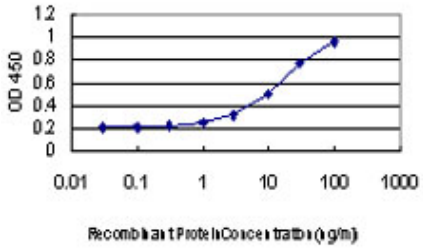
Immunoperoxidase of monoclonal antibody to AKAP8 on formalin-fixed paraffin-embedded human pancreas. [antibody concentration 3 ug/ml]



Immunofluorescence of monoclonal antibody to AKAP8 on HeLa cell. [antibody concentration 10 ug/ml]



Immunoprecipitation of AKAP8 transfected lysate using anti-AKAP8 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with AKAP8 monoclonal antibody.



Detection limit for recombinant GST tagged AKAP8 is approximately 0.3ng/ml as a capture antibody.

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