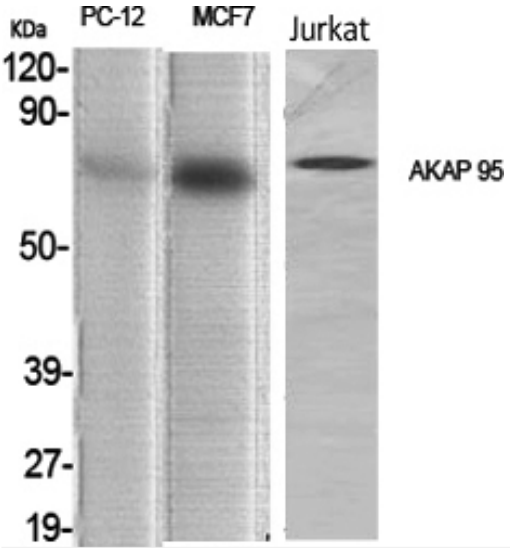
AKAP 95 Polyclonal Antibody

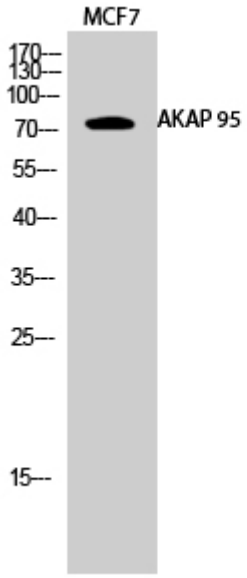
Catalog No	YP-Ab-03695
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	AKAP8
Protein Name	A-kinase anchor protein 8
Immunogen	The antiserum was produced against synthesized peptide derived from human AKAP8. AA range:331-380
Specificity	AKAP 95 Polyclonal Antibody detects endogenous levels of AKAP 95 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	AKAP8; AKAP95; A-kinase anchor protein 8; AKAP-8; A-kinase anchor protein 95 kDa; AKAP 95
Observed Band	76kD
Cell Pathway	Nucleus . Nucleus matrix . Nucleus, nucleolus . Cytoplasm . Associated with the nuclear matrix in interphase and redistributes mostly to chromatin at mitosis. However, mitotic chromatin localization has been questioned. Upon nuclear reassembly at the end of mitosis, is sequestered into the daughter nuclei where it re-acquires an interphase distribution. Exhibits partial localization to the nucleolus in interphase, where it colocalizes with UBTF/UBF, suggesting localization to the fibrillary center and/or to the dense fibrillary component. Colocalizes with GJA1 at the nuclear membrane specifically during cell cycle G1/S phase. .
Tissue Specificity	Highly expressed in heart, liver, skeletal muscle, kidney and pancreas. Expressed in mature dendritic cells.
Function	function:Anchoring protein that mediates the subcellular compartmentation of cAMP-dependent protein kinase (PKA type II).,similarity:Belongs to the AKAP95 family.,subcellular location:Associated with the nuclear matrix. Redistributed and detached from condensed chromatin during mitosis.,subunit:Binds to dimeric RII-alpha regulatory subunit of PKA during mitosis.,tissue specificity:Highly expressed in heart, liver, skeletal muscle, kidney and pancreas.,

Background	This gene encodes a member of the A-kinase anchor protein family. A-kinase anchor proteins are scaffold proteins that contain a binding domain for the RI/RII subunit of protein kinase A (PKA) and recruit PKA and other signaling molecules to specific subcellular locations. This gene encodes a nuclear A-kinase anchor protein that binds to the RII alpha subunit of PKA and may play a role in chromosome condensation during mitosis by targeting PKA and the condensin complex to chromatin. A pseudogene of this gene is located on the short arm of chromosome 9. [provided by RefSeq, May 2011],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

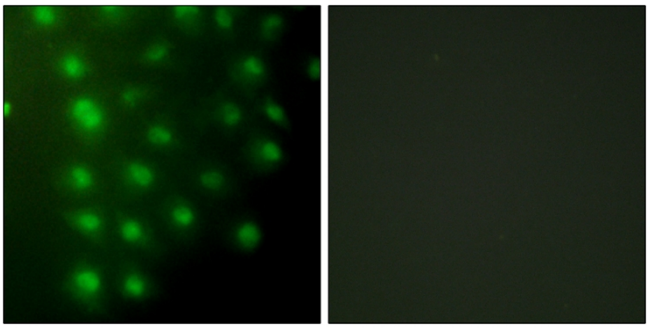
Products Images



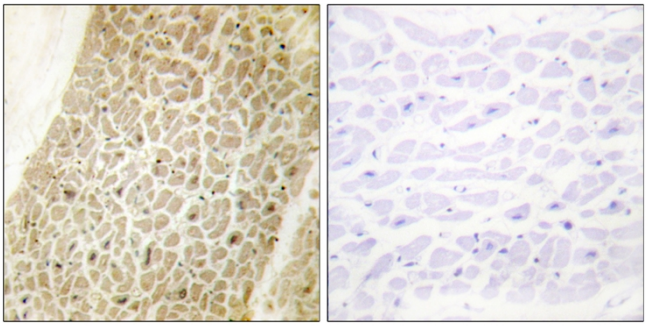
Western Blot analysis of various cells using AKAP 95 Polyclonal Antibody diluted at 1:1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



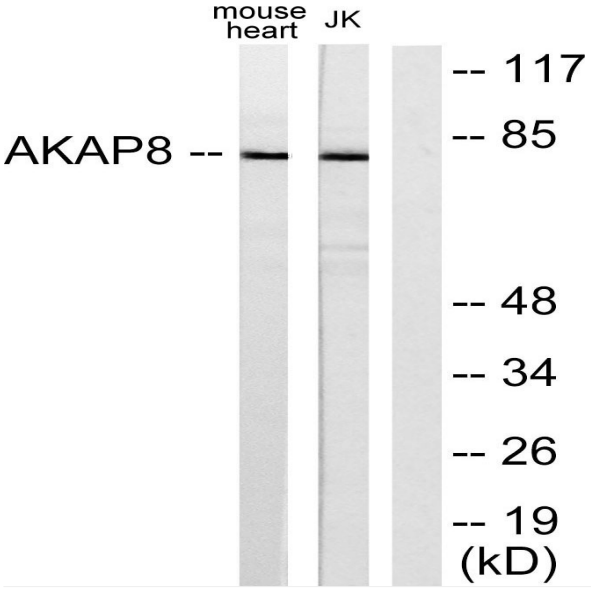
Western Blot analysis of MCF7 cells using AKAP 95 Polyclonal Antibody diluted at 1:1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



Immunofluorescence analysis of HUVEC cells, using AKAP8 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human heart tissue, using AKAP8 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from mouse heart and Jurkat cells, using AKAP8 Antibody. The lane on the right is blocked with the synthesized peptide.