

**Product Name: AKAP 95 (12E14) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe06726**

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## Summary

<b>Production Name</b>	AKAP 95 (12E14) Rabbit Monoclonal Antibody
<b>Description</b>	Rabbit Monoclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	AKAP8
<b>Alternative Names</b>	Akap8; AKAP95;
<b>Gene ID</b>	10270.0
<b>SwissProt ID</b>	O43823.A synthetic peptide of human AKAP 95

## Application

<b>Dilution Ratio</b>	WB: 1:1000
<b>Molecular Weight</b>	76kDa

## Background

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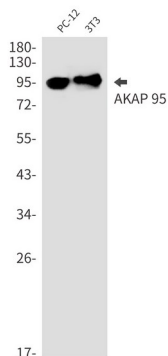
Anchoring protein that mediates the subcellular compartmentation of cAMP-dependent protein kinase (PKA type II). Anchoring protein that mediates the subcellular compartmentation of cAMP-dependent protein kinase (PKA type II) (PubMed:<a href="http://www.uniprot.org/citations/9473338" target="\_blank">9473338</a>). Acts as an anchor for a PKA-signaling complex onto mitotic chromosomes, which is required for maintenance of chromosomes in a condensed form throughout mitosis. Recruits condensin complex subunit NCAPD2 to chromosomes required for chromatin condensation; the function appears to be independent from PKA-anchoring (PubMed:<a href="http://www.uniprot.org/citations/10601332" target="\_blank">10601332</a>, PubMed:<a href="http://www.uniprot.org/citations/10791967" target="\_blank">10791967</a>, PubMed:<a href="http://www.uniprot.org/citations/11964380" target="\_blank">11964380</a>). May help to deliver cyclin D/E to CDK4 to facilitate cell cycle progression (PubMed:<a href="http://www.uniprot.org/citations/14641107" target="\_blank">14641107</a>). Required for cell cycle G2/M transition and histone deacetylation during mitosis. In mitotic cells recruits HDAC3 to the vicinity of chromatin leading to deacetylation and subsequent phosphorylation at 'Ser-10' of histone H3; in this function may act redundantly with AKAP8L (PubMed:<a href="http://www.uniprot.org/citations/16980585" target="\_blank">16980585</a>). Involved in nuclear retention of RPS6KA1 upon ERK activation thus inducing cell proliferation (PubMed:<a href="http://www.uniprot.org/citations/22130794" target="\_blank">22130794</a>). May be involved in regulation of DNA replication by acting as scaffold for MCM2 (PubMed:<a href="http://www.uniprot.org/citations/12740381" target="\_blank">12740381</a>). Enhances HMT activity of the KMT2 family MLL4/WBP7 complex and is involved in transcriptional regulation. In a teratocarcinoma cell line is involved in retinoic acid-mediated induction of developmental genes implicating H3 'Lys-4' methylation (PubMed:<a href="http://www.uniprot.org/citations/23995757" target="\_blank">23995757</a>). May be involved in recruitment of active CASP3 to the nucleus in apoptotic cells (PubMed:<a href="http://www.uniprot.org/citations/16227597" target="\_blank">16227597</a>). May act as a carrier protein of GJA1 for its transport to the nucleus (PubMed:<a href="http://www.uniprot.org/citations/26880274" target="\_blank">26880274</a>). May play a repressive role in the regulation of rDNA transcription. Preferentially binds GC-rich DNA in vitro. In cells, associates with ribosomal RNA (rRNA) chromatin, preferentially with rRNA promoter and transcribed regions (PubMed:<a href="http://www.uniprot.org/citations/26683827" target="\_blank">26683827</a>). Involved in modulation of Toll- like receptor signaling. Required for the cAMP-dependent suppression of TNF-alpha in early stages of LPS-induced macrophage activation; the function probably implicates targeting of PKA to NFKB1 (By similarity).

## Research Area

## Image Data

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Western blot detection of AKAP 95 in Hela,A549,HL-60,U251 cell lysates using AKAP 95 antibody(1:1000 diluted).

### **Note**

For research use only.