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anti-AKAP8 antibody (Internal Region)



Images



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Target:

Quantity:	100 μL	
Target:	AKAP8	
Binding Specificity:	Internal Region	
Reactivity:	Human, Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This AKAP8 antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF),	
	Immunocytochemistry (ICC)	
Product Details		
Immunogen:	A synthesized peptide derived from human AKAP8, corresponding to a region within the internal	
	amino acids.	
Isotype:	IgG	
Specificity:	AKAP8 Antibody detects endogenous levels of total AKAP8.	
Predicted Reactivity:	Bovine, Horse, Sheep, Dog	
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling	
	Resin (Thermo Fisher Scientific).	
Target Details		

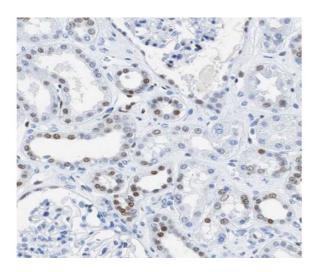
AKAP8

Alternative Name:	AKAP8 (AKAP8 Products)		
Background:	Description: Anchoring protein that mediates the subcellular compartmentation of cAMP-		
	dependent protein kinase (PKA type II) (PubMed:9473338). 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:10601332, PubMed:10791967, PubMed:11964380).		
	May help to deliver cyclin D/E to CDK4 to facilitate cell cycle progression (PubMed:14641107).		
	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:16980585). Involved in nuclear retention of RPS6KA1 upon ERK activation thus		
	inducing cell proliferation (PubMed:22130794). May be involved in regulation of DNA replication		
	by acting as scaffold for MCM2 (PubMed:12740381). 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:23995757). May be involved in recruitment of active CASP3 to the		
	nucleus in apoptotic cells (PubMed:16227597). May act as a carrier protein of GJA1 for its		
	transport to the nucleus (PubMed:26880274). Seems to involved in modulation of rDNA		
	transcription. Preferentially binds GC-rich DNA in vitro and associates to GC-rich ribosomal RNA		
	promoters (PubMed:26683827). 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).		
	Gene: AKAP8		
Molecular Weight:	76kDa		
Gene ID:	10270		
UniProt:	043823		
Pathways:	SARS-CoV-2 Protein Interactome		
Application Details			
Application Notes:	WB: 1:500-1:3000, IHC: 1:50-1:200, IF/ICC: 1:100-1:500, ELISA(peptide) 1:20000-1:40000		
Restrictions:	For Research Use only		

Handling

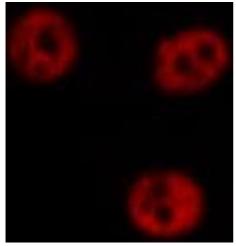
Format:	Liquid	
Concentration:	1 mg/mL	
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 $\%$ sodium azide and 50 $\%$ glycerol.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	-20 °C	
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.	
Expiry Date:	12 months	

Images



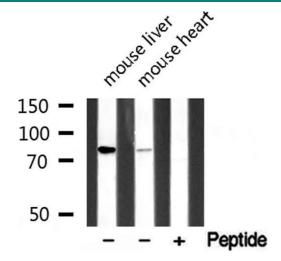
Immunohistochemistry

Image 1. ABIN6266711 at 1/100 staining human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Immunofluorescence (fixed cells)

Image 2. ABIN6266711 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25_iãC. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37_iãC. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibod



Western Blotting

Image 3. Western blot analysis on various tissue lysate using AKAP8 Antibody

Please check the product details page for more images. Overall 5 images are available for ABIN6259857.