
Product Name: KD-Validated A-Kinase Anchoring Protein 8 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAAb01636

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 76.1kDa

Antigen Information

Gene Name	AKAP8 AKAP8; A-Kinase Anchoring Protein 8; AKAP95; A Kinase (PRKA) Anchor Protein 8; A-Kinase
Alternative Names	Anchor Protein, 95kDa; A-Kinase Anchor Protein 8; AKAP 95; AKAP-8; A-Kinase Anchor Protein 95 KDa; DKFZp586B1222; DKFZP586B1222; AKAP-95
Gene ID	10270.0
SwissProt ID	O43823
Immunogen	A synthesized peptide derived from AKAP 95

Background

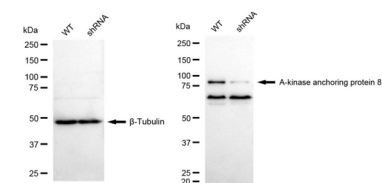
This gene encodes a member of the A-kinase anchor protein family. A-kinase anchor proteins are scaffold proteins that contain

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]

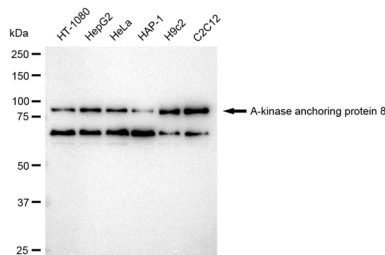
Research Area

Epigenetics and Nuclear Signaling

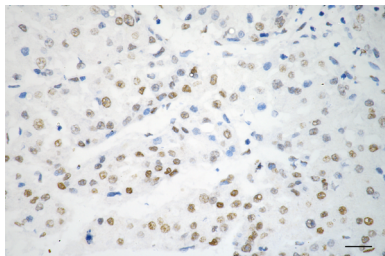
Image Data



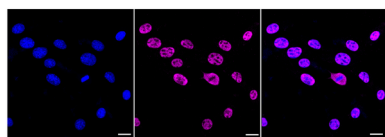
Western blotting analysis using A-kinase anchoring protein 8 antibody (KVA01636). A-kinase anchoring protein 8 expression in wild type (WT) and A-kinase anchoring protein 8 (AKAP8) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with A-kinase anchoring protein 8 antibody (KVA01636, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



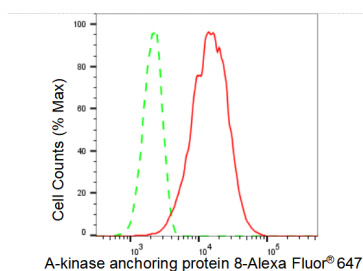
Western blotting analysis using A-kinase anchoring protein 8 antibody (KVA01636). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with A-kinase anchoring protein 8 antibody (KVA01636, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human hepatocarcinoma using a-kinase anchoring protein 8 antibody (KVA01636, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of C2C12 cells with A-kinase anchoring protein 8 antibody (KVA01636, 1:1,000). Nuclei were stained blue with DAPI; A-kinase anchoring protein 8 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Flow cytometric analysis of A-kinase anchoring protein 8 expression in C2C12 cells using A-kinase anchoring protein 8 antibody (KVA01636, 1:2,000). Green, isotype control; red, A-kinase anchoring protein 8.