

AKAP 79 Polyclonal Antibody
Catalog # AP68350**Specification**

AKAP 79 Polyclonal Antibody - Product Information

Application	WB
Primary Accession	P24588
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

AKAP 79 Polyclonal Antibody - Additional Information**Gene ID** 9495**Other Names**

AKAP5; AKAP79; A-kinase anchor protein 5; AKAP-5; A-kinase anchor protein 79 kDa; AKAP 79; H21; cAMP-dependent protein kinase regulatory subunit II high affinity-binding protein

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

AKAP 79 Polyclonal Antibody - Protein Information**Name** AKAP5**Synonyms** AKAP79**Function**

Multivalent scaffold protein that anchors the cAMP-dependent protein kinase/PKA to cytoskeletal and/or organelle-associated proteins, targeting the signal carried by cAMP to specific intracellular effectors (PubMed:<<http://www.uniprot.org/citations/1512224>>1512224). Association with the beta2- adrenergic receptor (beta2-AR) not only regulates beta2-AR signaling pathway, but also the activation by PKA by switching off the beta2-AR signaling cascade. Plays a role in long term synaptic potentiation by regulating protein trafficking from the dendritic recycling endosomes to the plasma membrane and controlling both structural and functional plasticity at excitatory synapses (PubMed:<<http://www.uniprot.org/citations/25589740>>25589740).

Cellular Location

Postsynaptic recycling endosome membrane; Lipid- anchor. Note=Associates with lipid rafts

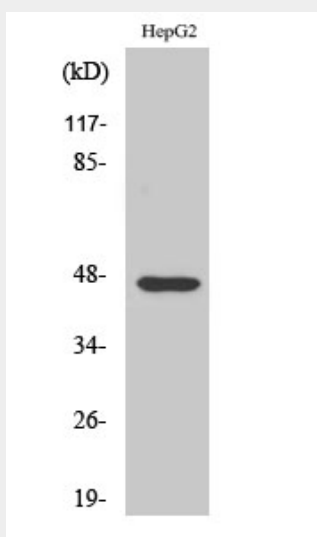
Tissue Location

Predominantly in the cerebral cortex and the postsynaptic densities of the forebrain, and to a lesser extent in adrenal medulla, lung and anterior pituitary

AKAP 79 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AKAP 79 Polyclonal Antibody - Images**AKAP 79 Polyclonal Antibody - Background**

May anchor the PKA protein to cytoskeletal and/or organelle-associated proteins, targeting the signal carried by cAMP to specific intracellular effectors. Association with to the beta2-adrenergic receptor (beta2-AR) not only regulates beta2-AR signaling pathway, but also the activation by PKA by switching off the beta2-AR signaling cascade.