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Product datasheet for TA392739M

AKAP5 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500~1:1000 IHC: 1:50~1:200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to the N-terminal of Human AKAP 5.
Specificity:	AKAP5 (E7) polyclonal antibody detects endogenous levels of AKAP5 protein.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 47, 79 kDa
Gene Name:	A-kinase anchoring protein 5
Database Link:	Entrez Gene 9495 Human P24588

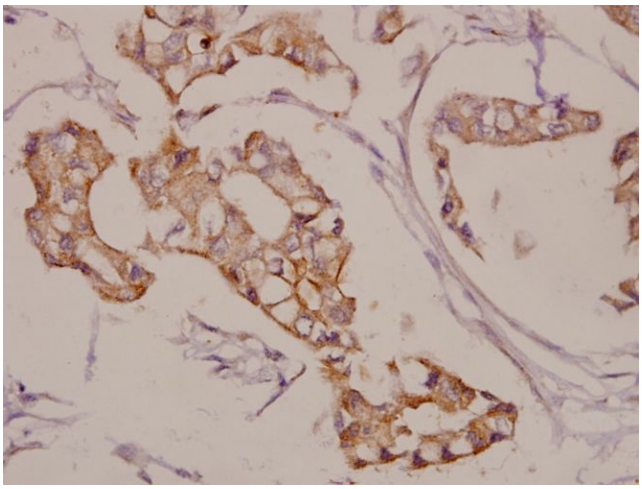
View online »

Background: AKAPs (A-kinase anchoring proteins), as their name implies, are a family of scaffolding proteins that bind regulatory subunits of Protein Kinase A (PKA) thus localizing PKA activity to distinct regions of the cell. Beyond a common amphipathic alpha helix that is responsible for recruiting the PKA regulatory subunit (RIα, RIIα, RIβ, or RIIβ), individual AKAPs contain additional domains responsible for the recrutiment of additional signaling proteins (phosphodiesterases, phosphatases, cytoskeletal components, other kinase, etc.) or restricting AKAP to a specific subcellular location. AKAP5 (also known as P75, AKAP75, or AKAP79) is predominantly expressed in neuronal tissues and cells where it serves to localize type II PKA to post-synaptic densities. AKAP5 specifically binds to the regulatory subunit of PKAIIβ, anchoring the enzyme to the plasma membrane and sites of cytoskeletal/membrane junctions. The other binding domains of AKAP5 have been shown to interact with calmodulin, PP2B, and calcineurin suggesting that AKAP5 may act to coordinate the cAMP- and Ca2+-sensing pathways in various cell types.

Synonyms: A-kinase anchor protein 5; A-kinase anchor protein 79 kDa; AKAP-5; AKAP 5; AKAP5; AKAP75; AKAP 79; AKAP79; A kinase (PRKA) anchor protein 5; A kinase anchor protein 5; A kinase anchor protein 79kDa

Note: For research use only, not for use in diagnostic procedure.

Product images:



Immunohistochemistry (IHC) analyzes of AKAP5 (E7) pAb in paraffin-embedded human breast carcinoma tissue at 1:50.