

## Product datasheet for **TA392739**

### 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:	<a href="#">Entrez Gene 9495 Human P24588</a>



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**Background:**

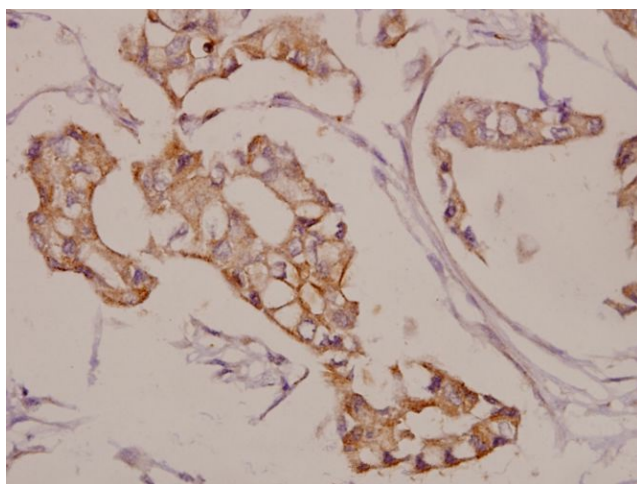
AKAPs (A-kinase anchoring proteins), as their name implies, are a family of scaffolding proteins that bind regulatory subunits of Protein Kinase A (PKA) thus localizing PKA activity to distinct regions of the cell. Beyond a common amphipathic alpha helix that is responsible for recruiting the PKA regulatory subunit (RI $\alpha$ , RII $\alpha$ , RI $\beta$ , or RII $\beta$ ), individual AKAPs contain additional domains responsible for the recruitment 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 PKAII $\beta$ , 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 Ca<sup>2+</sup>-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.