

**AKAP7 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7750b****Specification**

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**AKAP7 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [O43687](#)**AKAP7 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 9465**Other Names**

A-kinase anchor protein 7 isoforms alpha and beta, AKAP-7 isoforms alpha and beta, A-kinase anchor protein 18 kDa, AKAP 18, Protein kinase A-anchoring protein 7 isoforms alpha/beta, PRKA7 isoforms alpha/beta, AKAP7, AKAP15, AKAP18

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7750b](/products/AP7750b) was selected from the C-term region of human AKAP7. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**AKAP7 Antibody (C-term) Blocking Peptide - Protein Information****Name** AKAP7**Synonyms** AKAP15, AKAP18**Function**

Targets the cAMP-dependent protein kinase (PKA) to the plasma membrane, and permits functional coupling to the L-type calcium channel. The membrane-associated form reduces epithelial sodium channel (ENaC) activity, whereas the free cytoplasmic form may negatively regulate ENaC channel feedback inhibition by intracellular sodium.

**Cellular Location**

[Isoform Alpha]: Lateral cell membrane; Lipid- anchor. Note=Targeted predominantly to the lateral membrane

**Tissue Location**

Expressed in brain, heart, lung, pancreas and skeletal muscle.

**AKAP7 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**AKAP7 Antibody (C-term) Blocking Peptide - Images****AKAP7 Antibody (C-term) Blocking Peptide - Background**

AKAP7 is a member of the A-kinase anchoring protein (AKAP) family, a group of functionally related proteins that bind to a regulatory subunit (RII) of cAMP-dependent protein kinase A (PKA) and target the enzyme to specific subcellular compartments. AKAPs have a common RII-binding domain, but contain different targeting motifs responsible for directing PKA to distinct intracellular locations.

**AKAP7 Antibody (C-term) Blocking Peptide - References**

Brown, R.L., Biochem. Biophys. Res. Commun. 306 (2), 394-401 (2003)