

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

AKAP7 Antibody (C-term) Blocking Peptide - Product InformationPrimary 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)