

ADD1 Antibody (C-term) Blocking peptide Synthetic peptide

Catalog # BP13986b

Specification

ADD1 Antibody (C-term) Blocking peptide - Product Information

Primary Accession

<u>P35611</u>

ADD1 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 118

Other Names Alpha-adducin, Erythrocyte adducin subunit alpha, ADD1, ADDA

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13986b was selected from the C-term region of ADD1. 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.

ADD1 Antibody (C-term) Blocking peptide - Protein Information

Name ADD1

Synonyms ADDA

Function

Membrane-cytoskeleton-associated protein that promotes the assembly of the spectrin-actin network. Binds to calmodulin.

Cellular Location Cytoplasm, cytoskeleton. Cell membrane; Peripheral membrane protein; Cytoplasmic side

Tissue Location Expressed in all tissues. Found in much higher levels in reticulocytes than the beta subunit



ADD1 Antibody (C-term) Blocking peptide - Protocols

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

• **Blocking Peptides**

ADD1 Antibody (C-term) Blocking peptide - Images

ADD1 Antibody (C-term) Blocking peptide - Background

Adducins are a family of cytoskeleton proteins encoded bythree genes (alpha, beta, gamma). Adducin is a heterodimericprotein that consists of related subunits, which are produced fromdistinct genes but share a similar structure. Alpha- andbeta-adducin include a protease-resistant N-terminal region and aprotease-sensitive, hydrophilic C-terminal region. Alpha- andgamma-adducins are ubiquitously expressed. In contrast, beta-adducin is expressed at high levels in brain and hematopoietictissues. Adducin binds with high affinity to Ca(2+)/calmodulin andis a substrate for protein kinases A and C. Alternative splicingresults in multiple variants encoding distinct isoforms; however, not all variants have been fully described.

ADD1 Antibody (C-term) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Irvin, M.R., et al. J. Hypertens. 28(10):2076-2083(2010)Schuur, M., et al. J. Neurol. Neurosurg. Psychiatr. (2010) In press :Wang, Y., et al. Diabet. Med. 27(4):376-383(2010)Cross, D.S., et al. BMC Genet. 11, 51 (2010) :