

BCR Antibody (N-term) Blocking Peptide

Synthetic peptide Catalog # BP7113a

Specification

BCR Antibody (N-term) Blocking Peptide - Product Information

Primary Accession

P11274

BCR Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 613

Other Names

Breakpoint cluster region protein, Renal carcinoma antigen NY-REN-26, BCR, BCR1, D22S11

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP7113a was selected from the N-term region of human BCR. 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.

BCR Antibody (N-term) Blocking Peptide - Protein Information

Name BCR (HGNC:1014)

Synonyms BCR1, D22S11

Function

Protein with a unique structure having two opposing regulatory activities toward small GTP-binding proteins. The C-terminus is a GTPase-activating protein (GAP) domain which stimulates GTP hydrolysis by RAC1, RAC2 and CDC42. Accelerates the intrinsic rate of GTP hydrolysis of RAC1 or CDC42, leading to down-regulation of the active GTP-bound form (PubMed:7479768, PubMed:1903516, PubMed:17116687, PubMed:<a



href="http://www.uniprot.org/citations/7479768" target="_blank">7479768, PubMed:23940119). The amino terminus contains an intrinsic kinase activity (PubMed:1657398). Functions as an important negative regulator of neuronal RAC1 activity (By similarity). Regulates macrophage functions such as CSF1-directed motility and phagocytosis through the modulation of RAC1 activity (PubMed:17116687). Plays a major role as a RHOA GEF in keratinocytes being involved in focal adhesion formation and keratinocyte differentiation (PubMed:23940119).

Cellular Location

Postsynaptic density {ECO:0000250|UniProtKB:Q6PAJ1}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q6PAJ1}. Cell projection, axon {ECO:0000250|UniProtKB:Q6PAJ1}. Synapse {ECO:0000250|UniProtKB:F1LXF1}

BCR Antibody (N-term) Blocking Peptide - Protocols

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

• Blocking Peptides

BCR Antibody (N-term) Blocking Peptide - Images

BCR Antibody (N-term) Blocking Peptide - Background

A reciprocal translocation between chromosomes 22 and 9 produces the Philadelphia chromosome, which is often found in patients with chronic myelogenous leukemia. The chromosome 22 breakpoint for this translocation is located within the BCR gene. The translocation produces a fusion protein which is encoded by sequence from both BCR and ABL, the gene at the chromosome 9 breakpoint. Although the BCR-ABL fusion protein has been extensively studied, the function of the normal BCR gene product is not clear. The protein has serine/threonine kinase activity and is a GTPase-activating protein for p21rac.

BCR Antibody (N-term) Blocking Peptide - References

Burchert, A., et al., Blood 103(9):3480-3489 (2004).H, et al., Exp. Hematol. 32(5):476-482 (2004).Salesse, S., et al., Leukemia 18(4):727-733 (2004).Klein, F., et al., J. Exp. Med. 199(5):673-685 (2004).Hsu, H.C., et al., J. Lab. Clin. Med. 143(2):125-129 (2004).