10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BCL10 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP10698a

Specification

BCL10 Antibody (N-term) Blocking peptide - Product Information

Primary Accession O95999

BCL10 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 8915

Other Names
B-cell lymphoma/leukemia 10, B-cell CLL/lymphoma 10, Bcl-10, CARD-containing molecule enhancing NF-kappa-B, CARD-like apoptotic protein, hCLAP, CED-3/ICH-1 prodomain homologous E10-like regulator, CIPER, Cellular homolog of vCARMEN, cCARMEN, Cellular-E10, c-E10, Mammalian CARD-containing adapter molecule E10, mE10, BCL10, CIPER, CLAP

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.

BCL10 Antibody (N-term) Blocking peptide - Protein Information

Name BCL10 {ECO:0000303|PubMed:9989495, ECO:0000312|HGNC:HGNC:989}

Function
Plays a key role in both adaptive and innate immune signaling by bridging CARD domain-containing proteins to immune activation (PubMed:10187770, PubMed:10364242, PubMed:10400625, PubMed:25365219, PubMed:24074955). Acts by channeling adaptive and innate immune signaling downstream of CARD domain-containing proteins CARD9, CARD11 and CARD14 to activate NF-kappa-B and MAP kinase p38 (MAPK11, MAPK12, MAPK13 and/or MAPK14) pathways which stimulate expression of genes encoding pro-inflammatory cytokines and chemokines (PubMed:24074955). Recruited by activated CARD domain-containing proteins: homooligomerized CARD domain-containing proteins form a nucleating helical template that recruits BCL10 via CARD-CARD interaction, thereby promoting polymerization of BCL10, subsequent recruitment of MALT1 and formation of a CBM

complex (PubMed:24074955). This leads to activation of NF-kappa-B and MAP kinase p38 (MAPK11, MAPK12, MAPK13 and/or MAPK14) pathways which stimulate expression of genes encoding pro-inflammatory cytokines and chemokines (PubMed:18287044, PubMed:27777308, PubMed:24074955). Activated by CARD9 downstream of C-type lectin receptors; CARD9-mediated signals are essential for antifungal immunity (PubMed:26488816). Activated by CARD11 downstream of T-cell receptor (TCR) and B-cell receptor (BCR) (PubMed:18264101, PubMed:18287044, PubMed:27777308, PubMed:24074955). Promotes apoptosis, pro-caspase-9 maturation and activation of NF-kappa-B via NIK and IKK (PubMed:10187815).

Cellular Location
Cytoplasm, perinuclear region. Membrane raft. Note=Appears to have a perinuclear, compact and filamentous pattern of expression. Also found in the nucleus of several types of tumor cells. Colocalized with DPP4 in membrane rafts.

Tissue Location
Ubiquitous..

BCL10 Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides

BCL10 Antibody (N-term) Blocking peptide - Images

BCL10 Antibody (N-term) Blocking peptide - Background

This gene was identified by its translocation in a case ofmucosa-associated lymphoid tissue (MALT) lymphoma. The proteinencoded by this gene contains a caspase recruitment domain (CARD),and has been shown to induce apoptosis and to activate NF-kappaB.This protein is reported to interact with other CARD domaincontaining proteins including CARD9, 10, 11 and 14, which arethought to function as upstream regulators in NF-kappaB signaling.This protein is found to form a complex with MALT1, a proteinencoded by another gene known to be translocated in MALT lymphoma.MALT1 and this protein are thought to synergize in the activationof NF-kappaB, and the deregulation of either of them may contributeto the same pathogenetic process that leads to the malignancy.

BCL10 Antibody (N-term) Blocking peptide - References

Bhattacharyya, S., et al. Exp. Cell Res. 316(19):3317-3327(2010)Edin, S., et al. Mol. Immunol. 47 (11-12), 2057-2064 (2010) :Davila, S., et al. Genes Immun. 11(3):232-238(2010)Bhattacharyya, S., et al. J. Biol. Chem. 285(1):522-530(2010)Rehman, A.O., et al. Int J Oral Sci 1(3):105-118(2009)