

Bcl 10 Antibody(immunohistochemistry)

Bcl 10

Catalog # AD80568

Product Information

Application IHC
Primary Accession O95999
Reactivity Human
Host Rabbit
Clonality Monoclonal
Clone Names 792I3B1
Calculated MW 26252

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

Dilution IHC~~1:100~500

Storage Maintain refrigerated at 2-8°C.

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: 24074955,

PubMed:<u>25365219</u>). 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:<u>24074955</u>). 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:<u>24074955</u>). 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:<u>18287044</u>, PubMed:<u>24074955</u>, PubMed:<u>27777308</u>). Activated by CARD9 downstream of C-type lectin receptors; CARD9-mediated signals are essential for antifungal immunity (PubMed:<u>26488816</u>). Activated by CARD11

downstream of T-cell receptor (TCR) and B-cell receptor (BCR) (PubMed: 18264101, PubMed: 18287044, PubMed: 24074955,

PubMed: 27777308). Promotes apoptosis, pro-caspase-9 maturation and

activation of NF-kappa-B via NIK and IKK (PubMed: 10187815).

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...

Cellular Location

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