

# Bcl10 Antibody

Rabbit mAb

Catalog # AP90775

## Product Information

<b>Application</b>	WB, IHC, IF, ICC, IP, IHF
<b>Primary Accession</b>	<a href="#">O95999</a>
<b>Reactivity</b>	Human
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	B cell CLL/lymphoma 10; B-cell leukemia/lymphoma 10; Bcl10; CARD containing molecule enhancing NF kappa B; CARD like apoptotic protein; Caspase recruiting domain containing protein; cE10; Cellular E10; CIPER; hCLAP; Mammalian CARD-containing adapter molecule E10; R-RCD1;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	26252

## Additional Information

<b>Dilution</b>	WB 1:1000~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:20
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human Bcl10
<b>Description</b>	Promotes apoptosis, pro-caspase-9 maturation and activation of NF-kappa-B via NIK and IKK. May be an adapter protein between upstream TNFR1-TRADD-RIP complex and the downstream NIK-IKK-IKAP complex. Is a substrate for MALT1.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## Protein Information

<b>Name</b>	BCL10 {ECO:0000303   PubMed:9989495, ECO:0000312   HGNC:HGNC:989}
<b>Function</b>	Plays a key role in both adaptive and innate immune signaling by bridging CARD domain-containing proteins to immune activation (PubMed: <a href="#">10187770</a> , PubMed: <a href="#">10364242</a> , PubMed: <a href="#">10400625</a> , PubMed: <a href="#">24074955</a> , PubMed: <a href="#">25365219</a> ). 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: <a href="#">24074955</a> ). 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:[24074955](#), PubMed:[27777308](#)). 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:[24074955](#), PubMed:[27777308](#)). Promotes apoptosis, pro-caspase-9 maturation and activation of NF-kappa-B via NIK and IKK (PubMed:[10187815](#)).

#### Cellular Location

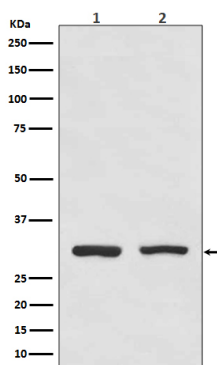
Cytoplasm, perinuclear region. Membrane raft. Note=Appears to have a perinuclear, compact and filamentous pattern of expression. Also found in the nucleus of several types of tumor cells. Colocalized with DPP4 in membrane rafts.

#### Tissue Location

Ubiquitous..

## Images

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Western blot analysis of Bcl10 expression in (1) HeLa cell lysate; (2) Raji cell lysate.

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Immunohistochemical analysis of paraffin-embedded human breast cancer, using Bcl10 Antibody.

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