



# **BCL10** Antibody

Purified Mouse Monoclonal Antibody (Mab) Catalog # AW5069

## **Product Information**

**Application** IHC-P, FC, WB **Primary Accession** 095999 Reactivity Human Host Mouse Clonality Monoclonal **Calculated MW** 26252 Isotype IgG1,k **Antigen Source HUMAN** 

## **Additional Information**

**Gene ID** 8915

Antigen Region 1-143

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 mol

**Dilution** IHC-P~~1:100~500 FC~~1:25 WB~~1:1000

**Target/Specificity** This BCL10 antibody is generated from a mouse immunized with a KLH

conjugated synthetic peptide between 1-143 amino acids from the human

region of human BCL10.

**Format** Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein G column, followed by dialysis

against PBS.

**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** BCL10 Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

# **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:25365219). 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: 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..

# **Background**

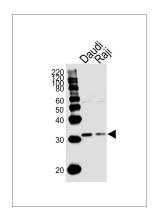
Promotes apoptosis, pro-caspase-9 maturation and activation of NF-kappa-B via NIK and IKK. May be an adapter protein between upstream TNFR1-TRADD-RIP complex and the downstream NIK-IKK-IKAP complex. Is a substrate for MALT1.

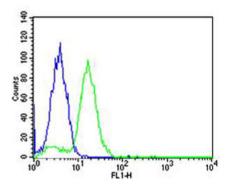
### References

Willis T.G.,et al.Cell 96:35-45(1999). Koseki T.,et al.J. Biol. Chem. 274:9955-9961(1999). Thome M.,et al.J. Biol. Chem. 274:9962-9968(1999). Yan M.,et al.J. Biol. Chem. 274:10287-10292(1999). Srinivasula S.M.,et al.J. Biol. Chem. 274:17946-17954(1999).

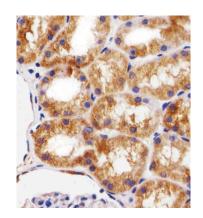
# **Images**

Western blot analysis of lysates from Daudi, Raji cell line (from left to right), using BCL10 Antibody(Cat. #AW5069). AW5069 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

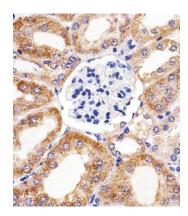




Flow cytometric analysis of Hela cells using BCL10 Antibody(green, Cat#AW5069) compared to an isotype control of mouse IgG1(blue). AW5069 was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody.



Immunohistochemical analysis of paraffin-embedded H. kidney section using BCL10 Antibody(Cat#AW5069). AW5069 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded M. kidney section using BCL10 Antibody(Cat#AW5069). AW5069 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.