

**BCL10 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM2259b****Specification**

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**BCL10 Antibody - Product Information**

Application	<b>WB, IHC-P, FC,E</b>
Primary Accession	<a href="#">O95999</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1,<math>\kappa</math></b>
Calculated MW	<b>26252</b>

**BCL10 Antibody - 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

**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.

**Dilution**

WB~~1:2000  
IHC-P~~1:25  
FC~~1:25

**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.

**BCL10 Antibody - 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..

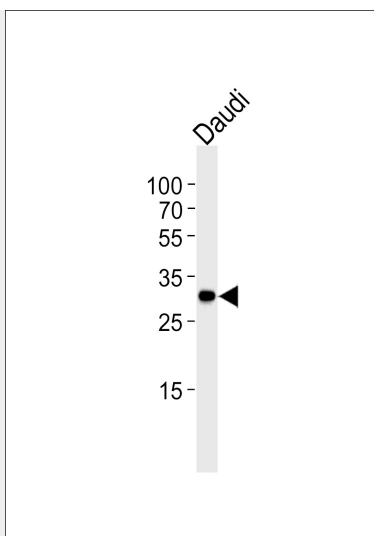
#### **BCL10 Antibody - Protocols**

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

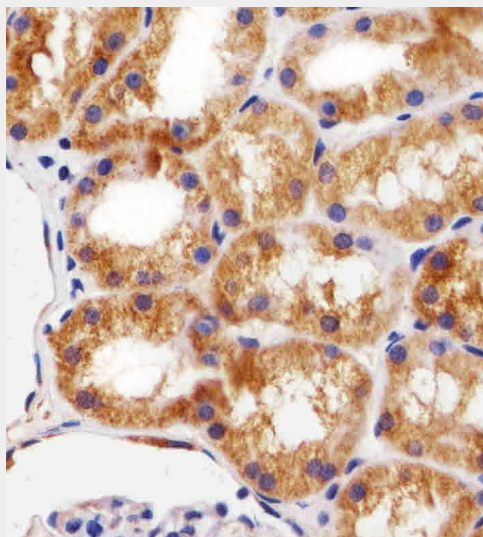
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **BCL10 Antibody - Images**

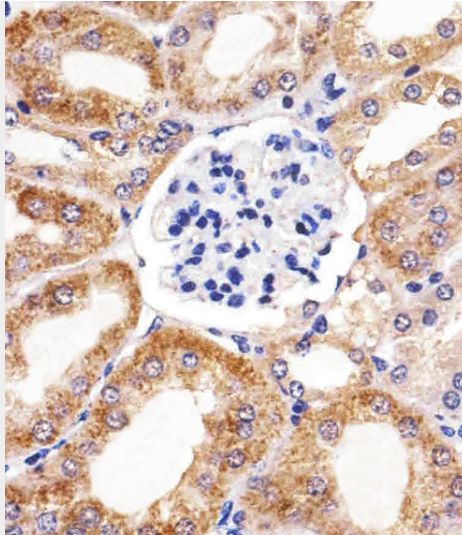




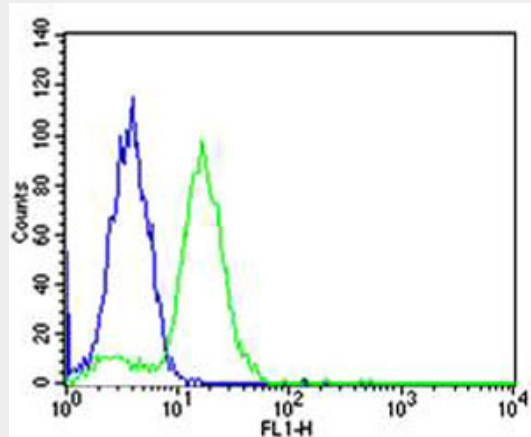
Western blot analysis of lysate from Daudi cell line using BCL10 Antibody (Cat. # AM2259b). AM2259b was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysate at 35 $\mu$ g per lane.



Immunohistochemical analysis of paraffin-embedded H. kidney section using BCL10 Antibody(Cat#AM2259b). AM2259b 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#AM2259b). AM2259b 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.



Flow cytometric analysis of Hela cells using BCL10 Antibody(green, Cat#AM2259b) compared to an isotype control of mouse IgG1(blue). AM2259b was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody.

### **BCL10 Antibody - 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.

### **BCL10 Antibody - 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).