

**KD-Validated Anti-BCL10 Mouse Monoclonal Antibody**  
**Mouse monoclonal antibody**  
**Catalog # AGI1788****Specification****KD-Validated Anti-BCL10 Mouse Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">O95999</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1 kappa
Calculated MW	Predicted, 26 kDa, observed, 28 kDa kDa
Gene Name	BCL10
Aliases	BCL10; BCL10 Immune Signaling Adaptor; CIPER; C-E10; ME10; CLAP; CARMEN; CED-3/ICH-1 Prodomain Homologous E10-Like Regulator; Mammalian CARD-Containing Adapter Molecule E10; CARD-Containing Molecule Enhancing NF-Kappa-B; Caspase-Recruiting Domain-Containing Protein; CARD-Containing Apoptotic Signaling Protein; CARD Containing Molecule Enhancing NF-KB; CARD-Containing Proapoptotic Protein; CARD-Like Apoptotic Protein; B-Cell Lymphoma/Leukemia 10; Cellular Homolog Of VCARMEN; B Cell CLL/Lymphoma 10; Cellular-E10; CCARMEN; HCLAP; BCL10, Immune Signaling Adaptor; B-Cell CLL/Lymphoma 10; Bcl-10; IMD37
Immunogen	Recombinant protein of human BCL10

**KD-Validated Anti-BCL10 Mouse Monoclonal Antibody - Additional Information**

Gene ID	8915
<b>Other Names</b>	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}

**KD-Validated Anti-BCL10 Mouse Monoclonal 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:<a href="http://www.uniprot.org/citations/10187770" target="\_blank">10187770</a>, PubMed:<a href="http://www.uniprot.org/citations/10364242" target="\_blank">10364242</a>, PubMed:<a href="http://www.uniprot.org/citations/10400625" target="\_blank">10400625</a>, PubMed:<a href="http://www.uniprot.org/citations/24074955" target="\_blank">24074955</a>, PubMed:<a href="http://www.uniprot.org/citations/25365219" target="\_blank">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="http://www.uniprot.org/citations/24074955" target="\_blank">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:<a href="http://www.uniprot.org/citations/24074955" target="\_blank">24074955</a>). 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:<a href="http://www.uniprot.org/citations/18287044" target="\_blank">18287044</a>, PubMed:<a href="http://www.uniprot.org/citations/24074955" target="\_blank">24074955</a>, PubMed:<a href="http://www.uniprot.org/citations/27777308" target="\_blank">27777308</a>). Activated by CARD9 downstream of C-type lectin receptors; CARD9-mediated signals are essential for antifungal immunity (PubMed:<a href="http://www.uniprot.org/citations/26488816" target="\_blank">26488816</a>). Activated by CARD11 downstream of T-cell receptor (TCR) and B-cell receptor (BCR) (PubMed:<a href="http://www.uniprot.org/citations/18264101" target="\_blank">18264101</a>, PubMed:<a href="http://www.uniprot.org/citations/18287044" target="\_blank">18287044</a>, PubMed:<a href="http://www.uniprot.org/citations/24074955" target="\_blank">24074955</a>, PubMed:<a href="http://www.uniprot.org/citations/27777308" target="\_blank">27777308</a>). Promotes apoptosis, pro-caspase-9 maturation and activation of NF-kappa-B via NIK and IKK (PubMed:<a href="http://www.uniprot.org/citations/10187815" target="\_blank">10187815</a>).

#### 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

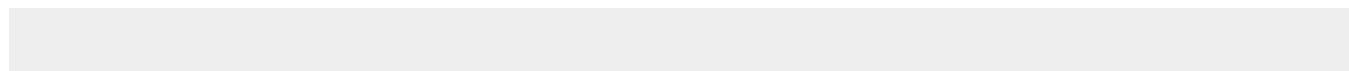
Ubiquitous..

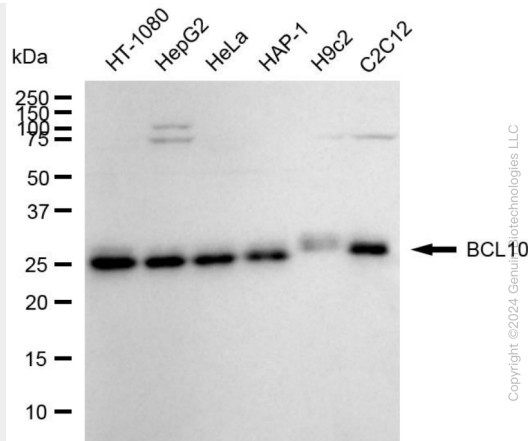
#### KD-Validated Anti-BCL10 Mouse Monoclonal Antibody - Protocols

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

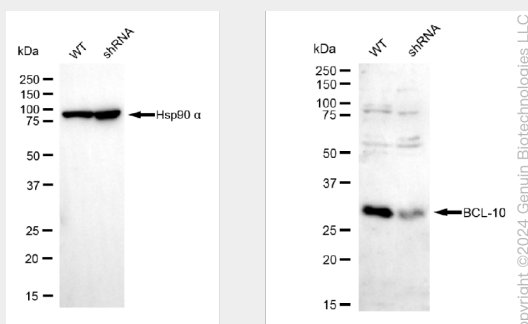
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### KD-Validated Anti-BCL10 Mouse Monoclonal Antibody - Images

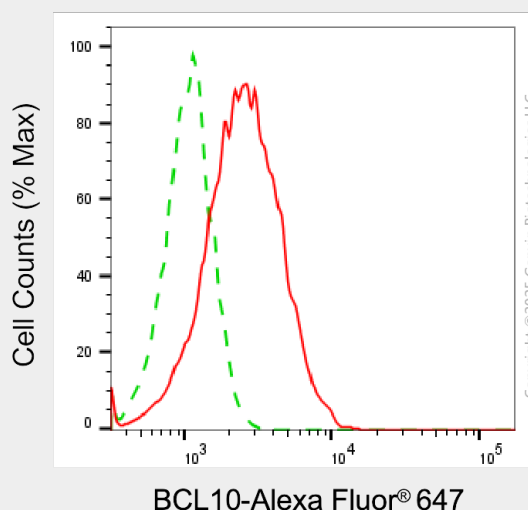




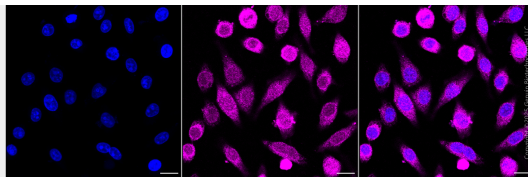
Western blotting analysis using anti-BCL10 antibody (Cat#AGI1788). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-BCL10 antibody (Cat#AGI1788, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-BCL10 antibody (Cat#AGI1788). BCL10 expression in wild-type (WT) and BCL10 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-BCL10 antibody (Cat#AGI1788, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Flow cytometric analysis of ENDOGL1 / ENGL expression in HepG2 cells using anti-ENDOGL1 / ENGL antibody (Cat#62853, 1:2,000). Green, isotype control; red, ENDOGL1 / ENGL.



Immunocytochemical staining of HepG2 cells with anti-BCL10 antibody(Cat#AGI1788, 1:1,000). Nuclei were stained blue with DAPI; BCL10 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20  $\mu$ m.