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BCL10 / BCL-10 Antibody (clone 151)

Mouse Monoclonal Antibody
Catalog # ALS16405

Specification

BCL10 / BCL-10 Antibody (clone 151) - Product Information

Application	**IHC**
Primary Accession	O95999
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**26kDa KDa**

BCL10 / BCL-10 Antibody (clone 151) - 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
Recognizes human B-cell lymphoma/leukaemia 10 (Bcl-10), a 31kD CARD (caspase recruitment domain) containing molecule that is involved in the regulation of apoptosis.

Reconstitution & Storage
+4°C or -20°C, Avoid repeated freezing and thawing.

Precautions
BCL10 / BCL-10 Antibody (clone 151) is for research use only and not for use in diagnostic or therapeutic procedures.

BCL10 / BCL-10 Antibody (clone 151) - 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..

Volume
50 µl

BCL10 / BCL-10 Antibody (clone 151) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BCL10 / BCL-10 Antibody (clone 151) - Images

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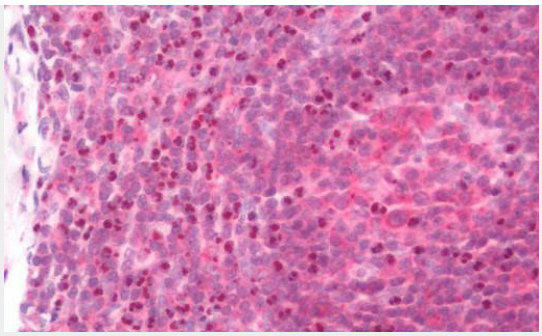

Human Tonsil: Formalin-Fixed, Paraffin-Embedded (FFPE)

BCL10 / BCL-10 Antibody (clone 151) - Background

Involved in adaptive immune response (PubMed:25365219). 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 (PubMed:18264101).

BCL10 / BCL-10 Antibody (clone 151) - 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).