

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

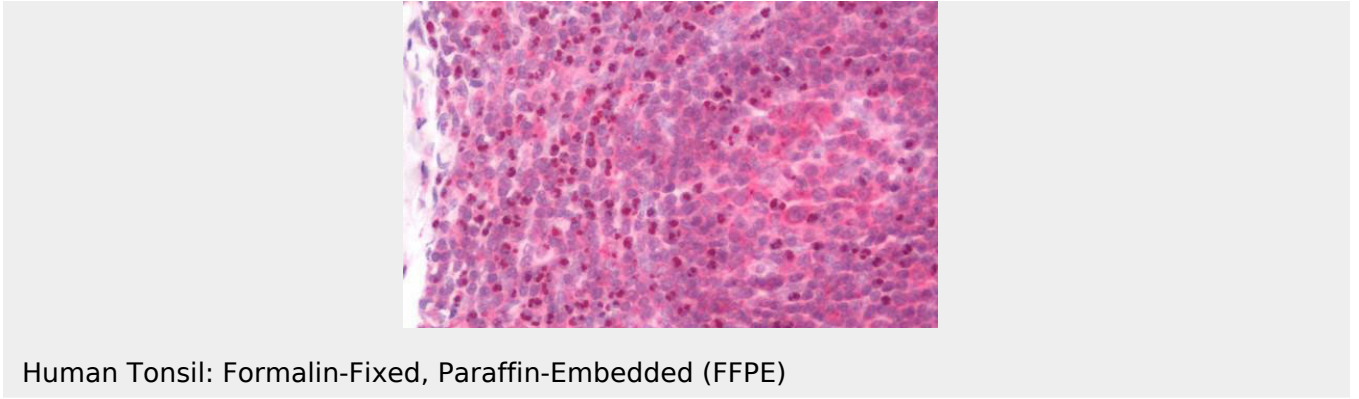
BCL10 / BCL-10 Antibody (clone 151) - Protocols

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

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

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





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).