

Rabbit BCL10 Polyclonal Antibody | anti-BCL10 antibody

BCL10 Antibody

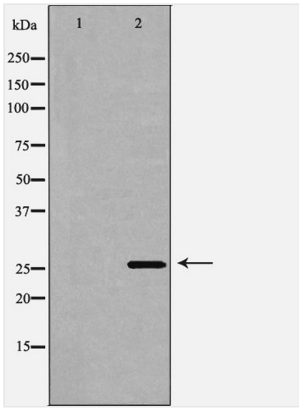
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326027	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

BCL10; Polyclonal Antibody; BCL10 Antibody; A132454; B cell CLL/lymphoma 10; B cell lymphoma/leukemia10; B-cell CLL/lymphoma 10; B-cell leukemia/lymphoma 10; B-cell lymphoma/leukemia 10; Bcl 10; Bcl-10; Bcl10; BCL10_HUMAN; c E10; c-E10; C81403; CARD containing apoptotic signaling protein; CARD containing molecule enhancing NF kappa B; CARD containing molecule enhancing NF kB; CARD containing molecule enhancing NF-kB; CARD containing molecule enhancing NFkB; CARD containing proapoptotic protein; CARD like apoptotic protein; CARD-containing apoptotic signaling protein; CARD-containing molecule enhancing NF-kappa-B; CARD-containing proapoptotic protein; CARD-like apoptotic protein; CARMEN; Caspase recruiting domain containing protein; caspase-recruiting domain-containing protein; cCARMEN; cE 10; cE10; CED 3/ICH 1 prodomain homologous E10 like regulator; CED-3/ICH-1 prodomain homologous E10-like regulator; CED3/ICH1 prodomain homologous E10 like regulator; Cellular E10; Cellular homolog of vCARMEN; Cellular-E10; CIPER; CLAP; hCLAP; Mammalian CARD containing adapter molecule E10; Mammalian CARD-containing adapter molecule E10; mE 10; mE10; R-RCD1; anti-BCL10 antibody

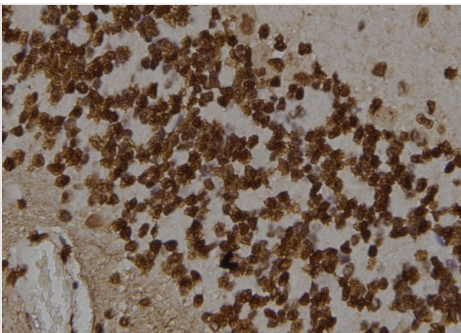
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	BCL10 antibody detects endogenous levels of total BCL10
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	233
Applicable Applications for anti-BCL10 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human BCL10
Subcellular Location	Cytoplasm > Perinuclear Region. Membrane Raft. 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 Specificity	Ubiquitous.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)

Western blot analysis of ovary using BCL10 antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326027 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-BCL10 antibody

Description: Bcl10/CIPER/CLAP/mE10 is a widely expressed CARD (caspase recruitment domain) containing protein shown to induce apoptosis and activate NF-kappaB (1-5). The CARD domain mediates self-oligomerization, interactions with other CARD proteins and is necessary for NF-kappaB activation, although the precise mechanism which Bcl10 regulates these processes is not fully understood. The discovery of Bcl10 came from observations of the chromosomal translocation t(1; 14)(p22; q32) from B cell lymphomas of the mucosa-associated lymphoid tissue (MALT) (1, 5). This translocation results in deregulated expression of a truncated form of Bcl10 which lacks apoptotic activity and enhances transformation. Studies from Bcl10 deficient mice demonstrate that Bcl10 is essential for the activation of NF-kappaB by T-and B-cell receptors (6). One third of Bcl10 deficient mice developed lethal exencephaly. Surviving mice were unaffected by various apoptotic stimuli, but were severely immunodeficient and defective in antigen receptor-induced NF-kappaB activation. PKC or T-cell receptor signaling results in a downregulation of Bcl10 protein levels, attenuating both NF-kappaB activation and cellular proliferation and also provides a negative feedback regulation of the NF-kappaB signaling to T cell signaling (7).

Function: 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).

Subunit Structure: Found in a membrane raft complex, at least composed of BCL10, CARD11, DPP4 and IKBKB. Self-associates by CARD-CARD interaction and forms a tight complex with MALT1. Interacts with other CARD-proteins such as CARD9, CARD10, CARD11 and CARD14. Forms a complex with CARD14 and MALT1; resulting in the formation of a CBM (CARD14-BCL10-MALT1) complex (PubMed:27113748). Binds caspase-9 with its C-terminal domain. Interacts with TRAF2 and BIRC2/c-IAP2. Interacts with PELI2 and SOCS3; these interactions may be mutually exclusive (By similarity). Interacts with CARD11 and MALT1; as part of a CBM (CARD11-BCL10-MALT1) complex involved in NF-kappa-B activation.

Post-translational Modifications: Phosphorylated. Phosphorylation results in dissociation from TRAF2 and binding to BIRC2/c-IAP2. Phosphorylated by IKBKB/IKKB.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502379
NCBI GeneID	8915
NCBI Accession #	NP_003912.1
NCBI GenBank Nucleotide #	NM_003921.5
UniProt Accession #	O95999; Q5VUF1
Molecular Weight	Observed: 26 kDa Predicted: 27 kDa
NCBI Official Full Name	B-cell lymphoma/leukemia 10 isoform 1

NCBI Official Synonym Full Names	B cell CLL/lymphoma 10
NCBI Official Symbol	BCL10
NCBI Official Synonym Symbols	CLAP; mE10; CIPER; IMD37; c-E10; CARMEN
NCBI Protein Information	B-cell lymphoma/leukemia 10
UniProt Protein Name	B-cell lymphoma/leukemia 10
UniProt Gene Name	BCL10
UniProt Synonym Gene Names	CIPER; CLAP; Bcl-10; hCLAP; CIPER; cCARMEN; c-E10; mE10

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/bcl10-antibody-immunohistochemistry-western-blot-elisa/326027>