

Rabbit anti-Human, Rat BCL11B Polyclonal Antibody | anti-BCL11B antibody

Anti-BCL11B Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19750	Rabbit	Human, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

BCL11B; Polyclonal Antibody; Anti-BCL11B Antibody Picoband; ATP-binding cassette sub-family G member 8; flap structure-specific endonuclease 1; Flap endonuclease 1; FEN-1; DNase IV; Flap structure-specific endonuclease 1; Maturation factor 1; MF1; hFEN-1; anti-BCL11B antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Predominantly Expressed in the liver (PubMed:11099417, PubMed:11452359). Low expression levels in the small intestine and colon (PubMed:11099417). Very low levels in other tissues, including brain, heart and spleen (PubMed:11452359).
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-BCL11B antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), ICC (Immunocytochemistry), WB (Western Blot)
Application Notes	WB: 0.1-0.25ug/ml, Human IHC(Paraffin-embedded Section): 2-5ug/ml, Human ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug /1x10 ⁶ cells, Rat ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human BCL11B recombinant protein (Position: Q10-A628).
Subcellular Localization	Membrane, Multi-pass membrane protein
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Structure-specific nuclease with 5'-flap endonuclease and 5'-3' exonuclease activities involved in DNA replication and repair. During DNA replication, cleaves the 5'-overhanging flap structure that is generated by displacement synthesis when DNA polymerase encounters the 5'-end of a downstream Okazaki fragment. It enters the flap from the 5'-end and then tracks to cleave the flap base, leaving a nick for ligation. Also involved in the long patch base excision repair (LP-BER) pathway, by cleaving within the apurinic/apyrimidinic (AP) site-terminated flap. Acts as a genome stabilization factor that prevents flaps from equilibrating into structures that lead to duplications and deletions. Also possesses 5'-3' exonuclease activity on nicked or gapped double-stranded DNA, and exhibits RNase H activity. Also involved in replication and repair of rDNA and in repairing mitochondrial DNA.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

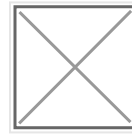


Figure 11. Flow Cytometry analysis of C6 cells using anti-BCL11B antibody (AAA19750). Overlay histogram showing C6 cells stained with AAA19750 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-BCL11B Antibody (AAA19750, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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Related Product Information for anti-BCL11B antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-BCL11B antibody	Primary Antibodies ; Atherosclerosis ; Cancer ; Cancer Metabolism ; Cardiovascular ; Cholesterol Metabolism ; Heart Disease ; Lipid and Lipoprotein Metabolism ; Lipid Metabolism ; Lipids/Lipoproteins ; Metabolic Signaling Pathway ; Metabolic Signaling Pathways ; Meta

References	1. Arlotta, P., Molyneaux, B. J., Chen, J., Inoue, J., Kominami, R., Macklis, J. D. Neuronal subtype-specific genes that control corticospinal motor neuron development in vivo. <i>Neuron</i> 45: 207-221, 2005.2. Avram, D., Fields, A., Top, K. P. O., Nevriy, D. J., Ishmael, J. E., Leid, M. Isolation of a novel family of C2H2 zinc finger proteins implicated in transcriptional repression mediated by chicken ovalbumin upstream promoter transcription factor (COUP-TF) orphan nuclear receptors. <i>J. Biol. Chem.</i> 275: 10315-10322, 2000. 3. Chen, B., Wang, S. S., Hattox, A. M., Rayburn, H., Nelson, S. B., McConnell, S. K. The Fezf2-Ctip2 genetic pathway regulates the fate choice of subcortical projection neurons in the developing cerebral cortex. <i>Proc. Nat. Acad. Sci.</i> 105: 11382-11387, 2008.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	532691787
NCBI GeneID	64919
NCBI Accession #	NP_001269166.1
NCBI GenBank Nucleotide #	NM_001282237.1
UniProt Accession #	Q9C0K0; Q9H162
Molecular Weight	95519 MW
NCBI Official Full Name	B-cell lymphoma/leukemia 11B isoform 3
NCBI Official Synonym Full Names	B cell CLL/lymphoma 11B
NCBI Official Symbol	BCL11B
NCBI Official Synonym Symbols	ATL1; RIT1; CTIP2; IMD49; CTIP-2; ZNF856B; ATL1-beta; ATL1-alpha; ATL1-delta; ATL1-gamma; hRIT1-alpha
NCBI Protein Information	B-cell lymphoma/leukemia 11B
UniProt Protein Name	B-cell lymphoma/leukemia 11B
UniProt Gene Name	BCL11B
UniProt Synonym Gene Names	CTIP2; RIT1; BCL-11B; hRit1

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.