

Rabbit BCL3 Polyclonal Antibody | anti-BCL3 antibody

Anti-BCL3 Antibody Picoband

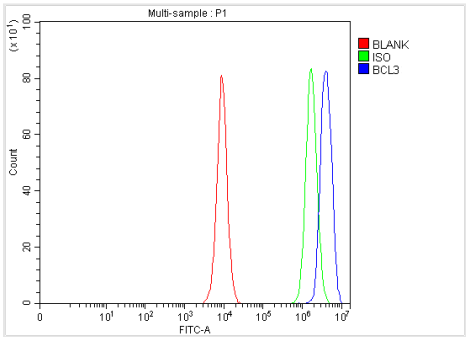
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127142	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

BCL3; Polyclonal Antibody; Anti-BCL3 Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-BCL3 antibody

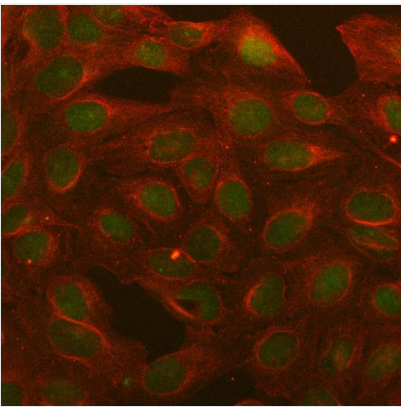
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-BCL3 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PELI2 recombinant protein (Position: D118-D420). Human PELI2 shares 97.4% amino acid (aa) sequence identity with mouse?PELI2.
Subcellular Localization	Cytoplasm, Nucleus
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	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
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.



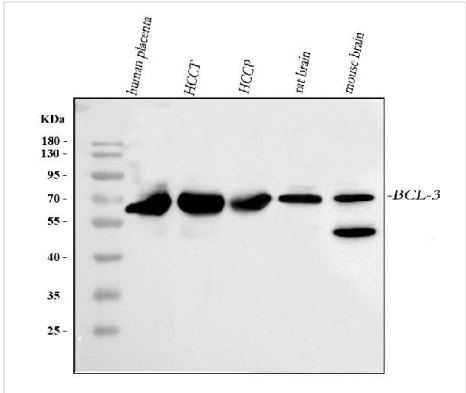
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of PC-3 cells using anti-BCL3 antibody (AAA127142).Overlay histogram showing PC-3 cells stained with AAA127142 (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-BCL3 Antibody (AAA127142, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG 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.



IF (Immunofluorescence)

Figure 2. IF analysis of BCL3 using anti-BCL3 antibody (AAA127142) and anti-Beta Tubulin antibody (M01857-3).BCL3 was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-BCL3 Antibody (AAA127142) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG and Cy3 Conjugated Goat Anti-Mouse IgG (BA1031) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of BCL3 using anti-BCL3 antibody (AAA127142).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human placenta tissue lysates,Lane 2: human hepatocellular carcinoma tumor tissue (HCT) lysates,Lane 3: human hepatocellular carcinoma paracancerous tissue (HCCP) lysates,Lane 4: rat brain tissue lysates,Lane 5: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-BCL3 antigen affinity purified polyclonal antibody (#AAA127142) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for BCL3 at approximately 60 kDa. The expected band size for BCL3 is at 48 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-BCL3 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-BCL3 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins

References	1. Bhatia, K., Huppi, K., McKeithan, T., Siwarski, D., Mushinski, J. F., Magrath, I. Mouse bcl-3: cDNA structure, mapping and stage-dependent expression in B lymphocytes. <i>Oncogene</i> 6: 1569-1573, 1991.2. Carmody, R. J., Ruan, Q., Palmer, S., Hilliard, B., Chen, Y. H. Negative regulation of Toll-like receptor signaling by NF-kappa-B p50 ubiquitination blockade. <i>Science</i> 317: 675-678, 2007. 3. Franzoso, G., Bours, V., Park, S., Tomita-Yamaguchi, M., Kelly, K., Siebenlist, U. The candidate oncoprotein Bcl-3 is an antagonist of p50/NF-kappa-B-mediated inhibition. <i>Nature</i> 359: 339-342, 1992.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	164664508
NCBI GeneID	602
NCBI Accession #	NP_005169.2
NCBI GenBank Nucleotide #	NM_005178.4
UniProt Accession #	P20749
Molecular Weight	47,584 Da
NCBI Official Full Name	B-cell lymphoma 3 protein
NCBI Official Synonym Full Names	B-cell CLL/lymphoma 3
NCBI Official Symbol	BCL3
NCBI Official Synonym Symbols	BCL4; D19S37
NCBI Protein Information	B-cell lymphoma 3 protein; BCL-3; proto-oncogene BCL3; B-cell leukemia/lymphoma 3; B-cell lymphoma 3-encoded protein; chronic lymphatic leukemia protein
UniProt Protein Name	B-cell lymphoma 3 protein
UniProt Gene Name	BCL3
UniProt Synonym Gene Names	BCL4; D19S37; BCL-3
UniProt Entry Name	BCL3_HUMAN

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.