

Datasheet for 600-401-GU4S**BCL3 Antibody****Overview**

Description:	Anti-BCL3 (RABBIT) Antibody - 600-401-GU4S
Item No.:	600-401-GU4S
Size:	25 µL
Applications:	ELISA, IF, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	BCL3 belongs to the ANKRD family. The protein contains seven ankyrin repeats, which are closely related to those found in I kappa B proteins. BCL3 functions as a transcriptional co-activator, regulator of transcriptional activation, promotor of transcription, and inhibitor of nuclear translocation of NF-kappa B. It is a proto-oncogene identified by its translocation into the immunoglobulin alpha-locus in some cases of B-cell leukemia. BCL3 contributes to the regulation of cell proliferation. Therefore, BCL3 may be associated with B-cell chronic lymphocytic leukemia, lymphoma, or other hematologic diseases. Anti-BCL3 Antibody is useful for researchers interested in Cancer Research, NF-Kappa B Pathway, and TNF Signaling Pathway.
Synonyms:	rabbit anti-BCL3 antibody, rabbit anti-BCL-3 Antibody, BCL 3, B-cell lymphoma 3 protein, B-cell lymphoma 3 protein Antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	BCL3
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-BCL3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a C-Term portion of human BCL3 conjugated to Keyhole Limpet Hemocyanin (KLH).
Purity/Specificity:	This affinity purified antibody is directed against human BCL3. This product was affinity purified from monospecific antiserum by immunoaffinity purification. Blast analysis of the sequence of the immunogen shows 100% identity with human.
Relevant Links:	• UniProtKB - P20749 • NCBI - NP_005169.2 • GenelD - 602

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-BCL-3 Antibody has been tested in Western Blot, ELISA, and Immunofluorescence. Expect a band at 47.5 kDa in western blot using appropriate lysates. Positive control used recombinant BCL3 protein, HEK293T overexpressing BCL3 or U87 whole cell lysates at 1µg/mL in WB; and U87MG with PFA at 10µg/mL in IF. Although not tested, this antibody is likely functional in immunohistochemistry, flow cytometry, and immunoprecipitation.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	5.0 ug/ml
FC:	User Optimized
IF:	10µg/mL
IHC:	1:200
IP:	User Optimized
WB:	1.0 ug/ml

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

Stabilizer: None

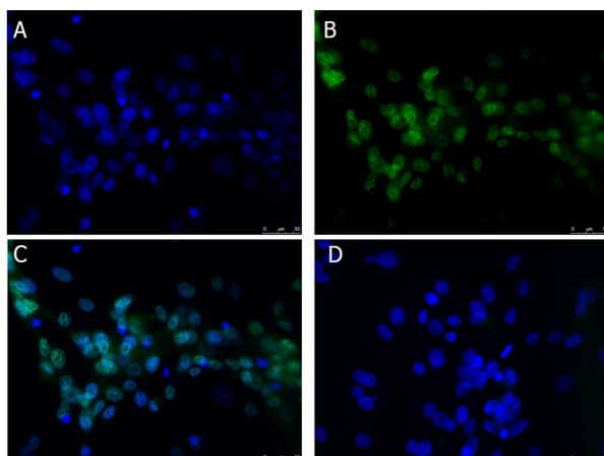
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

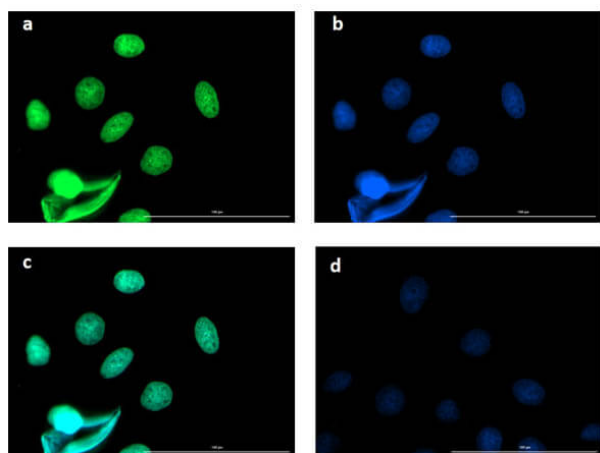
Expiration: Expiration date is one (1) year from date of receipt.

Images



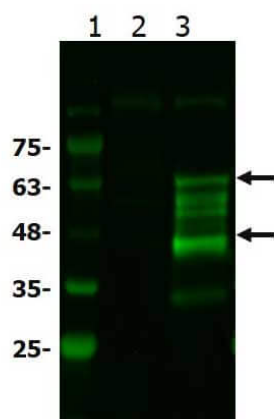
Immunofluorescence Microscopy

Immunofluorescence Microscopy of Rabbit anti-BCL3 antibody. Tissue: U-87-MG cells. Fixation: 4% PFA. Antigen retrieval: not required. Primary antibody: BCL3 antibody at 10 µg/mL overnight at 4°C. Secondary antibody: Donkey Anti-Rabbit IgG DyLight™ 488 (p/n 611-741-127) at 5 µg/ml for 2 h at RT. Localization: BCL3 is subcellularly localized in the cytosol, nucleoplasm, midbody and vesicles. Staining: BCL3 as green fluorescent signal with DAPI (blue) nuclear counterstain.



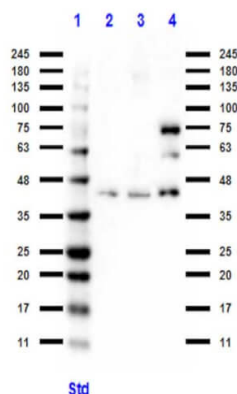
Immunofluorescence Microscopy

Immunofluorescence microscopy of BCL3 in Caco-2 cells using FITC-conjugated Fluorescent TrueBlot® anti-rabbit IgG for detection. Caco-2 cells were fixed with 4% PFA, blocked (5% mouse serum/0.3% Triton X-100 in 1X PBS) for 1 hr, then incubated with 15 µg/mL of anti-BCL3 primary antibody (Cat. No. 600-401-GU4) at 4°C overnight. Following 3 washes in 1X PBS for 5 min each, 5 µg/mL of FITC-conjugated Fluorescent TrueBlot® anti-rabbit IgG was added and allowed to incubate for 1 hr at room temperature. Nuclei were counterstained with DAPI present in mounting medium. The predicted main localization is nucleoplasm. Additional localization in some cell types includes vesicles and midbody. (a) BCL3 (b) DAPI (c) merged DAPI/BCL3 (d) secondary antibody only. Image taken at 40X magnification.



Western Blot

Western Blot of Rabbit anti-BCL3 antibody. Lane 1: MW ladder (p/n MB-210-0500). Lane 2: HEK293T WCL. Lane 3: BCL3 overexpressing HEK293T lysate. Load: 10 µg per lane. Primary antibody: BCL3 antibody at 1:1000 for overnight at 4°C. Secondary antibody: goat anti-rabbit secondary Antibody DyLight™ 488 antibody (p/n 611-141-122) at 1:20,000 for one hour at RT. Block: BlockOut blocking buffer (p/n MB-073) one hour at RT. Predicted/Observed size: 48 kda. Other band(s): BCL3 processing caused by ubiquitination, phosphorylations.



Western Blot

Western Blot of Rabbit anti-BCL3 antibody. Lane 1: MW ladder (p/n MB-210-0500). Lane 2: U-87 MG WCL. Lane 3: C2C12 WCL (p/n W10-001-GL7). Lane 4: NIH/3T3 WCL (p/n W10-000-358). Load: 10 µg per lane. Primary antibody: BCL3 antibody at 1:1000 for overnight at 4°C. Secondary antibody: goat anti-rabbit secondary HRP antibody (p/n 611-103-122) at 1:70,000 for one hour at RT. Block: 1% Casein (p/n MB-081-1000) (PVDF) blocking buffer one hour at RT. Predicted/Observed size: 47 kda. Other band(s): BCL3 processing caused by ubiquitination, phosphorylations.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.