

**Datasheet for 600-401-Z59****BFL1 Antibody****Overview**

<b>Description:</b>	Anti-BFL1 (RABBIT) Antibody - 600-401-Z59
<b>Item No.:</b>	600-401-Z59
<b>Size:</b>	100 µg
<b>Applications:</b>	ELISA, IF, IHC, WB
<b>Reactivity:</b>	Human, Mouse
<b>Host Species:</b>	Rabbit

**Product Details**

<b>Background:</b>	Apoptosis plays a major role in normal organism development, tissue homeostasis, and removal of damaged cells and is caused by caspase activation. Proteins that comprise the Bcl-2 family appear to control the activation of these enzymes. One such member is multi-domain antiapoptotic protein Bfl-1, which is overexpressed in stomach and other cancers. Bfl-1 can interact with Bax and suppress apoptosis by inhibiting the release of cytochrome c and caspase-3 activation. It is upregulated in cisplatin-resistant human bladder tumors, suggesting that its expression may be important for cisplatin resistance and inhibition of apoptosis in cancer cells. At least two isoforms of Bfl-1 are known to exist.
<b>Synonyms:</b>	Bfl-1 Antibody, GRS, BFL1, ACC-1, ACC-2, HBPA1, BCL2L5, GRS, Bcl-2-related protein A1, Bcl-2-like protein 5, Bcl2-L-5, BCL2A1
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	BCL2A1
<b>Reactivity:</b>	Human, Mouse
<b>Immunogen Type:</b>	Conjugated Peptide
<b>Immunogen:</b>	Anti-Bfl-1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid synthetic peptide from near the C-terminus of human Bfl-1.

**Purity/Specificity:** Anti-Bfl-1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Bfl-1 from other sources has not been determined.

**Relevant Links:**

- [UniProtKB - Q16548](#)
- [GeneID - 597](#)
- [NCBI - NP\\_004040](#)

## Application Details

**Tested Applications:** ELISA, IF, IHC, WB

**Application Note:** Anti-Bfl-1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 20 kDa in Western Blots of specific cell lysates and tissues.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**ELISA:** 1:5000-1:20,000

**IF:** 20 µg/mL

**IHC:** 10 µg/mL

**WB:** 0.5 - 2 µg/mL

## Formulation

**Physical State:** Liquid (sterile filtered)

**Concentration:** 1.0 mg/mL by Refractometry

**Buffer:** 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

**Preservative:** 0.02% (w/v) Sodium Azide

**Stabilizer:** None

## Shipping & Handling

**Shipping Condition:** Dry Ice

**Storage Condition:** Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

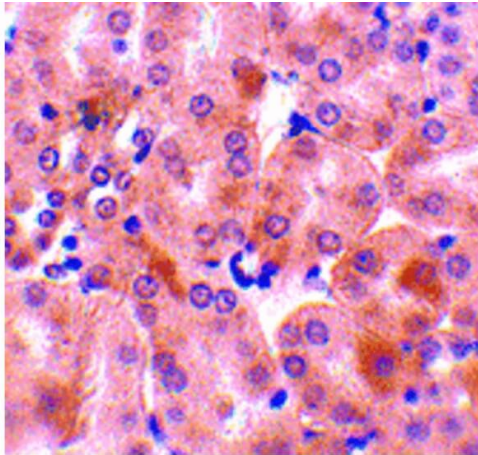
**Expiration:** Expiration date is one (1) year from date of receipt.

## Images



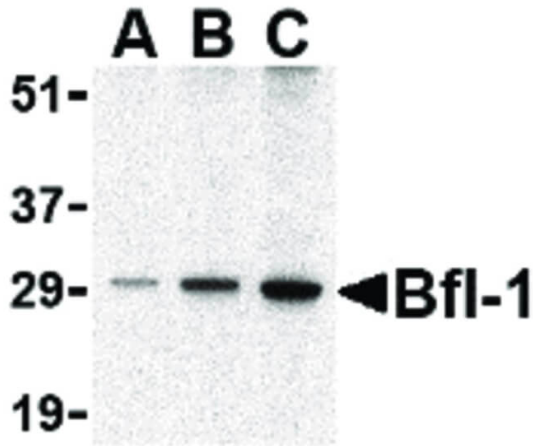
### **Immunofluorescence Microscopy**

Immunofluorescence Microscopy of Bfl-1 antibody. Cell Type: Mouse kidney cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Bfl-1 antibody at 20  $\mu\text{g}/\text{mL}$  for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Bfl-1 is cytoplasmic. Staining: Bfl-1 as red fluorescent signal.



### **Immunohistochemistry**

Immunohistochemistry of Bfl-1 antibody. Tissue: mouse kidney tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Bfl-1 antibody at 10  $\mu\text{g}/\text{mL}$  for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Bfl-1 is cytoplasmic. Staining: Bfl-1 is stained with hematoxylin purple nuclear counterstain.

**Western Blot**

Western Blot of Bfl-1 antibody in human kidney tissue lysate.

Lane A: Bfl-1 antibody at 0.5  $\mu\text{g}/\text{mL}$ . Lane B: Bfl-1 antibody at 1  $\mu\text{g}/\text{mL}$ . Lane C: Bfl-1 antibody at 2  $\mu\text{g}/\text{mL}$ . Load: 35  $\mu\text{g}$  per lane. Primary antibody: Bfl-1 antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 20 kDa, 29 kDa for Bfl-1. Other band(s): Bfl-1 splice variants and isoforms.

**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.