

**Datasheet for 600-401-Z67****BIF Antibody****Overview**

<b>Description:</b>	Anti-BIF (RABBIT) Antibody - 600-401-Z67
<b>Item No.:</b>	600-401-Z67
<b>Size:</b>	100 µg
<b>Applications:</b>	ELISA, 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 the activation of proteolytic enzymes termed caspases. Proteins that comprise the Bcl-2 family such as Bax appear to control the activation of these enzymes. Bax activity was found to be regulated by its association with Bax-interacting factor 1 (BIF), a member of the endophilin B family that is associated with intracellular membranes. Following this interaction, Bax undergoes a conformational change and translocates to mitochondrial membranes. The Bax/BIF interaction appears to be enhanced by apoptotic stimuli, suggesting that BIF acts as the trigger to activate Bax, and as suppression of BIF promoted HeLa cell colony formation in soft agar, it may have a role in the suppression of cancer progression. At least two isoforms of BIF are known to exist.
<b>Synonyms:</b>	Bif Antibody, Bif-1, CGI-61, PPP1R70, dJ612B15.2, KIAA0491, Endophilin-B1, Bax-interacting factor 1, Bif-1
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	SH3GLB1
<b>Reactivity:</b>	Human, Mouse
<b>Immunogen Type:</b>	Conjugated Peptide

<b>Immunogen:</b>	Anti-BIF antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide from near the C-terminus of human BIF.
<b>Purity/Specificity:</b>	Anti-Bif Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Bif from other sources has not been determined.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q9Y371</a></li><li>• <a href="#">GeneID - 51100</a></li><li>• <a href="#">NCBI - AAK27365</a></li></ul>

## Application Details

<b>Tested Applications:</b>	ELISA, IHC, WB
<b>Application Note:</b>	Anti-Bif Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 41 kDa in Western Blots of specific cell lysates and tissues.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:10,000 - 1:20,000
<b>WB:</b>	1 - 2 µg/mL

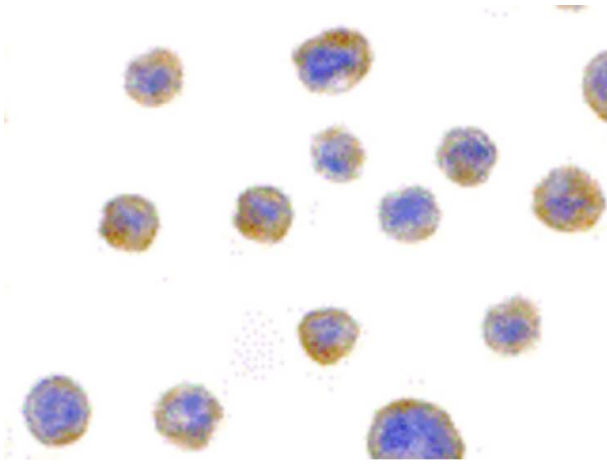
## Formulation

<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	1 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.02% (w/v) Sodium Azide
<b>Stabilizer:</b>	None

## Shipping & Handling

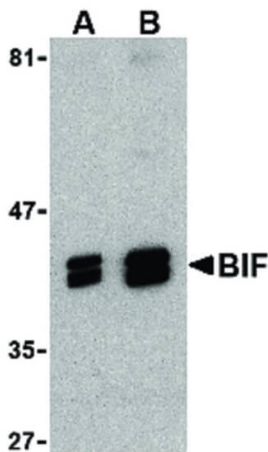
<b>Shipping Condition:</b>	Dry Ice
<b>Storage Condition:</b>	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images



### Immunohistochemistry

Immunocytochemistry of BIF antibody. Cell Type: HeLa cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: BIF antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: BIF is located in the cytoplasm, golgi apparatus, cell membrane, mitochondrion, and mitochondrion outer membrane. Staining: BIF is stained brown with hematoxylin purple nuclear counterstain.



### Western Blot

Western Blot of BIF antibody in HeLa cell lysate. Lane A: BIF antibody at 1 µg/mL. Lane B: BIF antibody at 2 µg/mL. Load: 35 µg per lane. Primary antibody: BIF 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: 41 kDa, 38 kDa for BIF. Other band(s): BIF splice variants and isoforms.

## Disclaimer

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