

Datasheet for 600-401-Z22**BAG1 Antibody****Overview**

Description:	Anti-BAG1 (RABBIT) Antibody - 600-401-Z22
Item No.:	600-401-Z22
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Bcl-2-associated athanogene 1 (BAG-1) was first identified as an anti-apoptotic bcl-2-binding protein. Later it was found to bind the molecular chaperones Hsp70 and Hsc70 through its carboxy-terminal sequence (termed the Bag domain), resulting in the inhibition of the refolding activity of these chaperones. It is thought that by binding and inhibiting these molecular chaperones, BAG-1 is able to modulate the expression level of proteins requiring chaperones to fold correctly. One such group of proteins that are affected is glucocorticoid receptors. Other reports have suggested that the level of BAG-1 expression correlates with the aggressiveness of various cancers. Multiple isoforms of BAG-1 are known to exist.
Synonyms:	BAG-1 Antibody, HAP, BAG-1, RAP46, HAP, BAG family molecular chaperone regulator 1, Bcl-2-associated athanogene 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	BAG1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-BAG-1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid synthetic peptide from near the N-terminus of human BAG-1.
Purity/Specificity:	Anti-BAG-1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with BAG-1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q99933 • GeneID - 573 • NCBI - NP_004314

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-BAG-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 39 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:	1:10,000 - 1:20,000
IF:	20 µg/mL
IHC:	2 µg/mL
WB:	1 - 2 µg/mL

Formulation

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

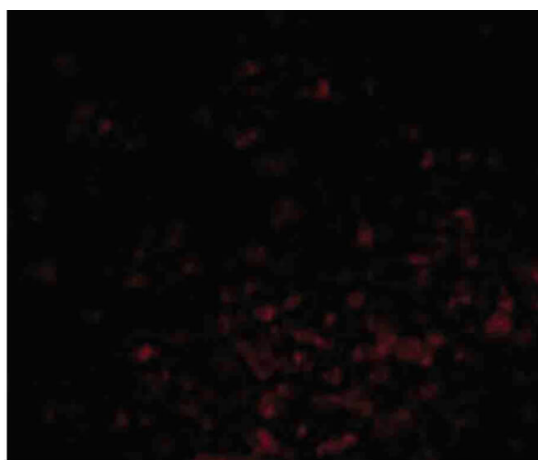
Shipping & Handling

Shipping Condition:	Dry Ice
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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.

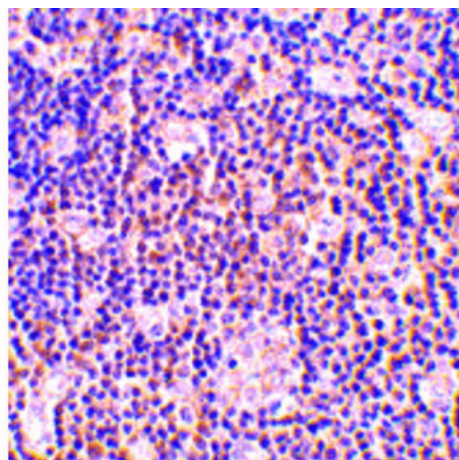
Expiration: Expiration date is one (1) year from date of receipt.

Images



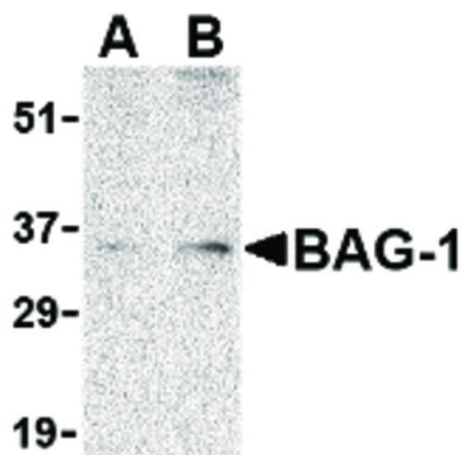
Immunofluorescence Microscopy

Immunofluorescence Microscopy of BAG-1 antibody. Cell Type: human lymph node cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: BAG-1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: BAG-1 is nuclear and cytoplasmic. Staining: BAG-1 as red fluorescent signal.



Immunohistochemistry

Immunohistochemistry of BAG-1 antibody. Tissue: human lymph node tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: BAG-1 antibody at 2 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: BAG-1 is nuclear and cytoplasmic. Staining: BAG-1 is stained with hematoxylin purple nuclear counterstain.

**Western Blot**

Western Blot of BAG-1 antibody in PC-3 cell lysate. Lane A: BAG-1 antibody at 1 μ g/mL. Lane B: BAG-1 antibody at 2 μ g/mL. Load: 35 μ g per lane. Primary antibody: BAG-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: 39 kDa, 35 kDa for BAG-1. Other band(s): BAG-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.