

Datasheet for 200-401-ES1**BAG4 Antibody****Overview**

Description:	Anti-BAG4 (RABBIT) Antibody - 200-401-ES1
Item No.:	200-401-ES1
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Apoptosis is a process induced by specific cytokines, including TNF and Fas ligand, which belong to the TNF family. These cytokines exert their effects through their death domain-containing receptors, TNF-R1 and Fas. Recently, several additional death receptors have been identified, including DR3, DR4, DR5, and DR6. The apoptotic signal is transmitted by adapter molecules containing death domains that interact with the death domains of these receptors. A novel TNF-R1 interacting protein, named BAG4 (also known as silencer of death domains), was recently identified. BAG4 associates with the death domain of TNF-R1, preventing its constitutive activation. Upon TNF treatment, BAG4 is released, allowing adapter molecules such as TRADD to recruit to the active TNF-R1 complex, thereby activating TNF signaling pathways. Additionally, BAG4 interacts with DR3. BAG4 is ubiquitously expressed across various human tissues and cell lines.
Synonyms:	BAG-4, SODD, SODD Antibody, BAG family molecular chaperone regulator 4, Bcl-2-associated athanogene 4
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	BAG4
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-BAG4 antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to amino acids near the N-terminus of human BAG4.
Purity/Specificity:	Anti-BAG4 Antibody is purified by DEAE purification methods. Cross reactivity with BAG4 from other sources has not been determined.
Relevant Links:	• UniProtKB - O95429 • GeneID - 9530 • NCBI - NP_001191807.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-BAG4 Antibody has been tested for use in ELISA, Western blotting, immunocytochemistry and immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 50 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:	1:5,000
IF:	20 µg/mL
WB:	.5 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 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

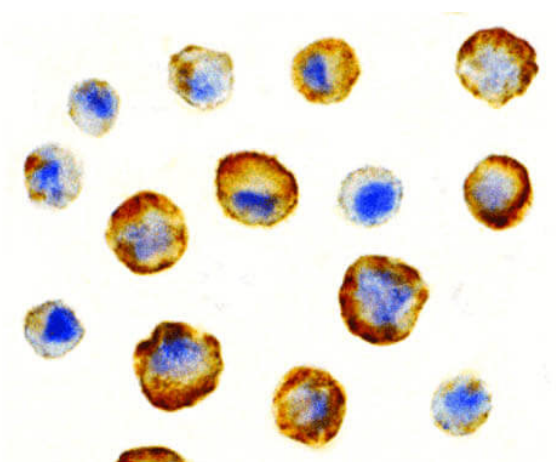
Shipping & Handling

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.

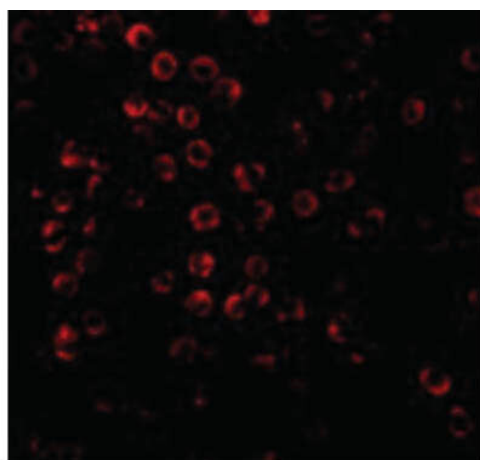
Expiration: Expiration date is one (1) year from date of receipt.

Images



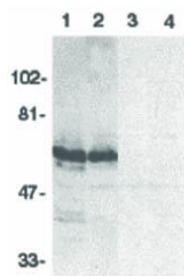
Immunocytochemistry

Immunocytochemistry of BAG4 antibody. Cells: HeLa cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: SODD antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: SODD is cytoplasmic. Staining: BAG4 as precipitated brown signal with hematoxylin blue nuclear counterstain.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of BAG4 antibody. Tissue: HeLa cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: BAG4 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: BAG4 is cytoplasmic. Staining: BAG4 as red fluorescent signal.

**Western Blot**

Western blot of BAG4 antibody. Lane 1: HeLa whole cell lysate. Lane 2: THP-1 whole cell lysate. Lane 3: HeLa whole cell lysate in the presence of blocking peptide. Lane 4: THP-1 whole cell lysate in the presence of blocking peptide. Load: 35 µg per lane. Primary antibody: BAG4 antibody at 1:500 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: 49.6 kDa, 64 kDa for BAG4. Other band(s): BAG4 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.