prosci-inc.com

ProSci Incorporated
12170 Flint Place
Poway, CA 92064

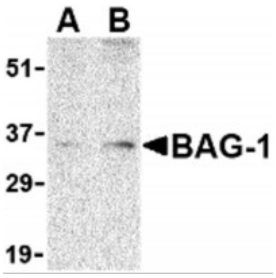
Toll Free: +1 (888) 513 9525
Local: +1 (858) 513 2638
Fax: +1 (858) 513 2692

techsupport@prosci-inc.com

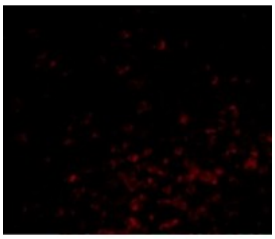
HIGH PERFORMANCE ANTIBODIES ... AND MORE

BAG-1 Antibody

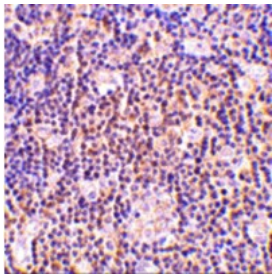
CATALOG NUMBER: 3871



Western blot analysis of BAG-1 in PC-3 cell lysate with BAG-1 antibody at (A) 1 and (B) 2 ug/mL.



Immunofluorescence of BAG-1 in Human Lymph Node cells with BAG-1 antibody at 20 ug/mL.



Immunohistochemistry of BAG-1 in human lymph node tissue with BAG-1 antibody at 2 ug/mL

Specifications

SPECIES REACTIVITY:	Human, Mouse, Rat
TESTED APPLICATIONS:	ELISA, IF, IHC-P, WB
APPLICATIONS:	BAG-1 antibody can be used for the detection of BAG-1 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 2 ug/mL. For immunofluorescence start at 20 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1216 - PC-3 Cell Lysate
	2) Cat. No. 1369 - Human Lymph Node Tissue Lysate
IMMUNOGEN:	BAG-1 antibody was raised against a 14 amino acid synthetic peptide from near the amino terminus of human BAG-1. The immunogen is located within the first 50 amino acids of BAG-1.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	BAG-1 Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	BAG-1 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	BAG-1 antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	BAG-1 Antibody: HAP, BAG-1, RAP46, HAP, BAG family molecular chaperone regulator 1, Bcl-2-associated

	athanogene 1
ACCESSION NO.:	NP_004314
PROTEIN GI NO.:	124494251
OFFICIAL SYMBOL:	BAG1
GENE ID:	573

Background

BACKGROUND:	BAG-1 Antibody: 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-1is 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.
REFERENCES:	1) Takayama S, Sato T, Krajewski K, et al. Cloning and functional analysis of BAG-1: a novel Bcl2-binding protein with anti-cell death activity. Cell 1995; 80:279-84.
	2) Nollen EAA, Brunsting JF, Song J, et al. Bag1 functions in vivo as a negative regulator of Hsp70 chaperone activity. Mol. Cell. Biol. 2000; 20:1083-8.
	3) Cato ACB and Mink S. BAG-1 family of cochaperones in the modulation of nuclear receptor action. J. Steroid Biochem. & Mol. Biol. 2001; 78:379-88.
	4) Kajewska M, Turner BC, Shabaik A, et al. Expression of BAG-1 protein correlates with aggressive behavior of prostate cancers. Prostate 2006; 66:801-10.

FOR RESEARCH USE ONLY

December 12, 2016