

Rabbit BAG3 Polyclonal Antibody | anti-BAG3 antibody

Phospho-BAG3 (Tyr457) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31421	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

BAG3; Polyclonal Antibody; Phospho-BAG3 (Tyr457) Antibody; BAG 3; BAG family molecular chaperone regulator 3; BAG-3; Bag3; BAG3_HUMAN; Bcl 2 binding protein; Bcl-2-associated athanogene 3; Bcl-2-binding protein Bis; BCL2 associated athanogene 3; BCL2 binding athanogene 3; BIS; CAIR 1; Docking protein CAIR 1; Docking protein CAIR-1; MFM6; anti-BAG3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-BAG3 (Tyr457) Antibody detects endogenous levels of BAG3 only when phosphorylated at Tyr457.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-BAG3 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA (Peptide ELISA)
Application Notes	WB: 1:1000-3000 IHC: 1:50-1:200 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human BAG3 around the phosphorylation site of Tyr457.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Binds to the ATPase domain of HSP70/HSC70 chaperones. Interacts with BCL2. Interacts with phospholipase C-gamma proteins. Interacts with DNAJB6. Interacts (via BAG domain) with HSF1; this interaction occurs in normal and heat-shocked cells promoting HSF1 nucleocytoplasmic shuttling. Interacts with HSPA8 (via NBD). Interacts with HSPA1A (via NBD) and HSPA1B (via NBD). Interacts (via WW domain 1) with SYNPO2 (via PPPY motif). Interacts with HSPB8.
Subcellular Location	Nucleus. Cytoplasm. Note: Colocalizes with HSF1 to the nucleus upon heat stress (PubMed:26159920).
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
At 1/200 staining Human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/200 staining Mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/200 staining Rat kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of BAG3 (Phospho-Tyr457) using HeLa whole cell lysates. -/+ means absence or presence of N peptide¼non-phospho peptide) and P peptide(phospho peptide).



WB (Western Blot)
Western blot analysis of extracts from 293, using BAG3 (Phospho-Tyr457) Antibody.



WB (Western Blot)
Western blot analysis of extracts from heat-shock treated HepG2 cells, using Phospho-BAG3 (Tyr457) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-BAG3 antibody	Co-chaperone for HSP70 and HSC70 chaperone proteins. Acts as a nucleotide-exchange factor (NEF) promoting the release of ADP from the HSP70 and HSC70 proteins thereby triggering client/substrate protein release. Nucleotide release is mediated via its binding to the nucleotide-binding domain (NBD) of HSPA8/HSC70 where as the substrate release is mediated via its binding to the substrate-binding domain (SBD) of HSPA8/HSC70. Has anti-apoptotic activity. Plays a role in the HSF1 nucleocytoplasmic transport.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	14043024
NCBI GeneID	9531
NCBI Accession #	NP_004272.2
NCBI GenBank Nucleotide #	NM_004281.3
UniProt Accession #	O95817; Q3B763; Q9NT20; Q9P120; A8K5L8
Molecular Weight	61,595 Da
NCBI Official Full Name	BAG family molecular chaperone regulator 3
NCBI Official Synonym Full Names	BCL2-associated athanogene 3
NCBI Official Symbol	BAG3
NCBI Official Synonym Symbols	BIS; BAG-3; CAIR-1
NCBI Protein Information	BAG family molecular chaperone regulator 3; docking protein CAIR-1; BCL2-binding athanogene 3; bcl-2-binding protein Bis
UniProt Protein Name	BAG family molecular chaperone regulator 3

UniProt Gene Name	BAG3
UniProt Synonym Gene Names	BIS; BAG-3
UniProt Entry Name	BAG3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/bag3-antibody-western-blot-immunohistochemistry-peptide-elisa-elisa/31421>