

# BAG3 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP50650

## Product Information

Application	WB, IHC
Primary Accession	<a href="#">O95817</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	61595

## Additional Information

Gene ID	9531
Other Names	BAG family molecular chaperone regulator 3, BAG-3, Bcl-2-associated athanogene 3, Bcl-2-binding protein Bis, Docking protein CAIR-1, BAG3, BIS
Dilution	WB~~1:1000 IHC~~1:50-1:100
Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20°C

## Protein Information

Name	BAG3
Synonyms	BIS
Function	Co-chaperone and adapter protein that connects different classes of molecular chaperones including heat shock proteins 70 (HSP70s), e.g. HSPA1A/HSP70 or HSPA8/HSC70, and small heat shock proteins (sHSPs), e.g. HSPB8 (PubMed: <a href="#">27884606</a> , PubMed: <a href="#">30559338</a> ). Acts as a nucleotide-exchange factor (NEF) promoting the release of ADP from HSP70s, thereby triggering client protein release (PubMed: <a href="#">27884606</a> , PubMed: <a href="#">30559338</a> ). Nucleotide release is mediated via BAG3 binding to the nucleotide-binding domain (NBD) of HSP70s, whereas client release is mediated via binding to the substrate-binding domain (SBD) (PubMed: <a href="#">27474739</a> , PubMed: <a href="#">9873016</a> ). Has anti-apoptotic activity (PubMed: <a href="#">10597216</a> ). Plays a role in the HSF1 nucleocytoplasmic transport (PubMed: <a href="#">26159920</a> ).
Cellular Location	Nucleus. Cytoplasm. Note=Colocalizes with HSF1 to the nucleus upon heat stress (PubMed: <a href="#">26159920</a> )

## Background

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Inhibits the chaperone activity of HSP70/HSC70 by promoting substrate release. Has anti-apoptotic activity.

## References

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Takayama S.,et al.J. Biol. Chem. 274:781-786(1999).

Lee J.H.,et al.Oncogene 18:6183-6190(1999).

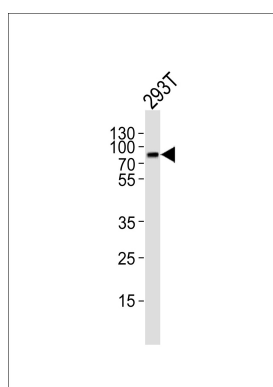
Doong H.,et al.Oncogene 19:4385-4395(2000).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

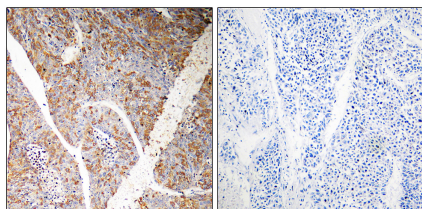
Bechtel S.,et al.BMC Genomics 8:399-399(2007).

## Images

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Western blot analysis of lysate from 293T cell line,using BAG3 Antibody(AP50650). AP50650 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysate at 35ug.



Immunohistochemistry analysis of paraffin-embedded human liver carcinoma tissue, using BAG3 antibody.

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