

Bag-3 Polyclonal Antibody Catalog # AP73727

Specification

Bag-3 Polyclonal Antibody - Product Information

Application	WB, IHC-P
Primary Accession	O95817
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

Bag-3 Polyclonal Antibody - Additional Information

Gene ID 9531

Other Names

BAG3; BIS; BAG family molecular chaperone regulator 3; BAG-3; Bcl-2-associated athanogene 3; Bcl-2-binding protein Bis; Docking protein CAIR-1

Dilution

WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1:100-1:300. ELISA: 1/10000. Not yet tested in other applications.
IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Bag-3 Polyclonal Antibody - 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:[27884606](http://www.uniprot.org/citations/27884606), PubMed:[30559338](http://www.uniprot.org/citations/30559338)). Acts as a nucleotide-exchange factor (NEF) promoting the release of ADP from HSP70s, thereby triggering client protein release (PubMed:[27884606](http://www.uniprot.org/citations/27884606), PubMed:[30559338](http://www.uniprot.org/citations/30559338)). 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:[27474739](http://www.uniprot.org/citations/27474739), PubMed:[27474739](http://www.uniprot.org/citations/27474739)

[9873016](http://www.uniprot.org/citations/9873016)). Has anti-apoptotic activity (PubMed:[10597216](http://www.uniprot.org/citations/10597216)). Plays a role in the HSF1 nucleocytoplasmic transport (PubMed:[26159920](http://www.uniprot.org/citations/26159920)).

Cellular Location

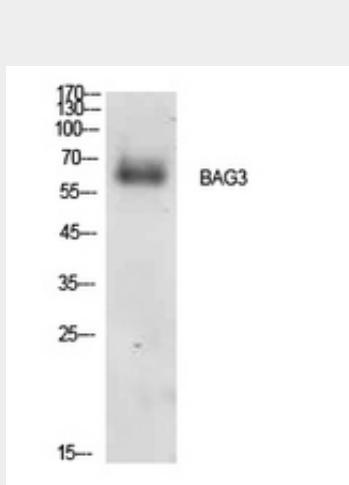
Nucleus. Cytoplasm. Note=Colocalizes with HSF1 to the nucleus upon heat stress (PubMed:26159920)

Bag-3 Polyclonal Antibody - Protocols

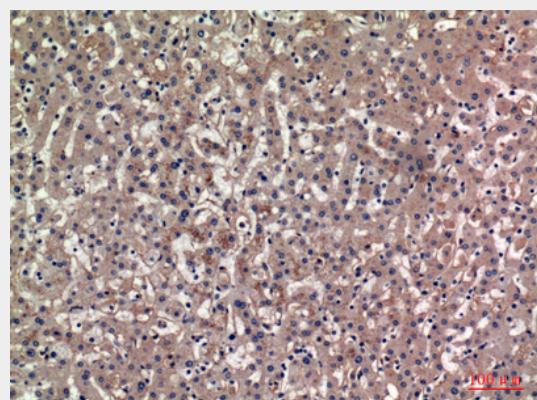
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Bag-3 Polyclonal Antibody - Images



Western Blot analysis of A549 cells using Bag-3 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100

Bag-3 Polyclonal Antibody - Background

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 (PubMed:9873016, PubMed:27474739). Has anti-apoptotic activity (PubMed:10597216). Plays a role in the HSF1 nucleocytoplasmic transport (PubMed:26159920).