

# Bag-3 Polyclonal Antibody

Catalog # AP73727

## Product Information

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|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC-P              |
| Primary Accession | <a href="#">O95817</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 61595                  |

## Additional Information

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|                    |  |
|--------------------|--|
| 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~~Western Blot: 1/500 - 1/2000. IHC-p: 1:100-1:300. ELISA: 1/10000. Not yet tested in other applications. |
| Format             | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.  |
| Storage Conditions | -20°C  |

## Protein Information

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|----------|---|
| 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> ). |

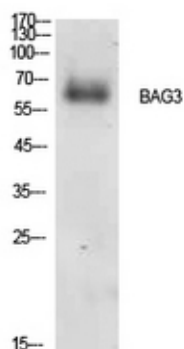
## Cellular Location

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

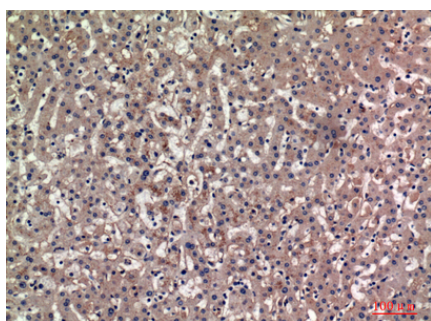
## Background

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](#)).

## 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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.