

## Recombinant Human BAG1, GST-tagged

**Cat. No.** BAG1-6974H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human BAG1 (72-end) was expressed in E. coli cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 72 aa-end                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | BAG1 (also known as BCL2-associated athanogene) is a membrane protein rich in glutamic acid residues that binds to BCL2 and blocks apoptosis or programmed cell death. The BAG1-BCL2 complex enhances the anti-apoptotic effects of BCL2 and represents a link between growth factor receptors and anti-apoptotic mechanisms. Overexpression of BAG1 in 3T3 fibroblasts prevents apoptosis in the presence of low serum. BAG1 has also been shown to interact with activated glucocorticoid, androgen, estrogen and progesterone receptors. Binding to these receptors by BAG1 is dependent on receptor activation. |
| <b>Form</b>             | Recombinant protein stored in 50mM MOPS, pH 7.5, 150mM NaCl, 150mM Imidazole, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | ~66kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | >85%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|                            |                                                                                                                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>        | Western Blot                                                                                                                                                                                                                                        |
| <b>Storage</b>             | Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.                                                                                    |
| <b>Concentration</b>       | 0.2 µg/µl                                                                                                                                                                                                                                           |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                     |
| <b>Gene Name</b>           | BAG1 BCL2-associated athanogene [ Homo sapiens ]                                                                                                                                                                                                    |
| <b>Official Symbol</b>     | BAG1                                                                                                                                                                                                                                                |
| <b>Synonyms</b>            | BAG1; BCL2-associated athanogene; BAG family molecular chaperone regulator 1; BAG-1; Bcl-2-binding protein; receptor-associated protein, 46-KD; Bcl-2 associating athanogene-1 protein; glucocortoid receptor-associated protein RAP46; HAP; RAP46; |
| <b>Gene ID</b>             | 573                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>         | NM_001172415                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>      | NP_001165886                                                                                                                                                                                                                                        |
| <b>MIM</b>                 | 601497                                                                                                                                                                                                                                              |
| <b>UniProt ID</b>          | Q99933                                                                                                                                                                                                                                              |
| <b>Chromosome Location</b> | 9p12                                                                                                                                                                                                                                                |
| <b>Pathway</b>             | Androgen Receptor Signaling Pathway, organism-specific biosystem; Protein                                                                                                                                                                           |

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processing in endoplasmic reticulum, organism-specific biosystem; Protein processing in endoplasmic reticulum, conserved biosystem;

**Function**

chaperone binding; phosphoprotein binding; protein binding; receptor signaling protein activity;

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