

## Recombinant Human BAG2, His-tagged

**Cat. No.** BAG2-27436TH **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human BAG2 with an N terminal His tag; 231 amino acids with tag, Predicted MWt 25.9 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 211 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | BAG proteins compete with Hip for binding to the Hsc70/Hsp70 ATPase domain and promote substrate release. All the BAG proteins have an approximately 45-amino acid BAG domain near the C terminus but differ markedly in their N-terminal regions. The predicted BAG2 protein contains 211 amino acids. The BAG domains of BAG1, BAG2, and BAG3 interact specifically with the Hsc70 ATPase domain in vitro and in mammalian cells. All 3 proteins bind with high affinity to the ATPase domain of Hsc70 and inhibit its chaperone activity in a Hip-repressible manner. |
| <b>Conjugation</b>      | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Weight</b> | 25.900kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>           | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage buffer</b>           | Preservative: None<br>Constituents: 20% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0                                                                                                                                                 |
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.                                                                                                                                                |
| <b>Sequences of amino acids</b> | MGSSHHHHHHSSGLVPRGSHMAQAKINAKANEGFRCSRSSMADRSSRLLESLDQL<br>ELRVEALREAATAVEQEKEILLEMIHSIQNSQDMRQISDGEREELNLTANRLMGRTL<br>TVEVSVETIRNPQQQESLKHATRIIDEVVNKFLLDLGNAKSHLMSLYSACSSEVPHGP<br>VDQKFQSIVIGCALEDQKKIKRRLETLLRNIENSDKAIKLLEHSGAGSKTLQQNAESR<br>FN |
| <b>Sequence Similarities</b>    | Contains 1 BAG domain.                                                                                                                                                                                                                                 |

## GENE INFORMATION

|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| <b>Gene Name</b>       | BAG2 BCL2-associated athanogene 2 [ Homo sapiens ]                              |
| <b>Official Symbol</b> | BAG2                                                                            |
| <b>Synonyms</b>        | BAG2; BCL2-associated athanogene 2; BAG family molecular chaperone regulator 2; |
| <b>Gene ID</b>         | 9532                                                                            |
| <b>mRNA Refseq</b>     | NM_004282                                                                       |
| <b>Protein Refseq</b>  | NP_004273                                                                       |
| <b>MIM</b>             | 603882                                                                          |

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Uniprot ID</b>          | O95816                                                                                                                                      |
| <b>Chromosome Location</b> | 6p12.3-p11.2                                                                                                                                |
| <b>Pathway</b>             | Protein processing in endoplasmic reticulum, organism-specific biosystem; Protein processing in endoplasmic reticulum, conserved biosystem; |
| <b>Function</b>            | chaperone binding;                                                                                                                          |

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