

# Recombinant Human BPNT1, His-tagged

**Cat. No.** BPNT1-3466H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>       | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>        | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>   | BAK1 encodes a receptor-like kinase (RLK) with a putative extracellular domain, a single transmembrane domain, an intracellular-juxtamembrane domain, and a kinase domain. BAK1 expression is associated with the progression of Prostate cancer (CaP). BAK1 appears to function in distinct receptor-signaling complexes to integrate multiple microbe-associated molecular pattern (MAMP) perception into downstream-signaling events. BAK1 can serve multiple purposes to simultaneously modulate MAMP-receptor complexes, BR signaling, and cell death for the benefit of bacterial infection, life style, and fitness. |
| <b>Immunogen</b>     | Recombinant human BAK1 (29-187aa) purified from E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Isotype</b>       | Mouse IgG2a heavy chain and k light chain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Clone</b>         | Anti-human BAK1 mAb, clone AT8B4, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human BAK1 protein.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration</b> | 1 mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>        | Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.1% Sodium Azide.                                                                                                                                                                                                                                                                                                                          |
| <b>Usage</b>       | <p>The antibody has been tested by ELISA, Western blot and Immunofluorescence analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.</p> <p>Recommended dilution range for Western blot analysis and Immunofluorescence is 1:250 ~ 500. Recommended starting dilution is 1:250.</p> |
| <b>Application</b> | ELISA, WB, IFA/ICC.                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>     | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                          |

## GENE INFORMATION

|                       |                                                                                                                                                                                                                                                                          |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>      | BAK1 BCL2-antagonist/killer 1 [ Homo sapiens ]                                                                                                                                                                                                                           |
| <b>Synonyms</b>       | BCL2-antagonist/killer 1;BAK; CDN1; BCL2L7; MGC3887; BAK-LIKE; MGC117255; BAK1; bcl-2 homologous antagonist/killer; bcl2-L-7; BCL2-like 7 protein bcl-2-like protein 7; apoptosis regulator BAK; pro-apoptotic protein BAK;Apoptosis regulator BAK; Bcl-2-like protein 7 |
| <b>Gene ID</b>        | 578                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>    | NM_001188                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b> | NP_001179                                                                                                                                                                                                                                                                |
| <b>MIM</b>            | 600516                                                                                                                                                                                                                                                                   |
| <b>UniProt ID</b>     | Q16611                                                                                                                                                                                                                                                                   |

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|----------------------------|----------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 6p21.3                                                                                             |
| <b>Pathway</b>             | Protein processing in endoplasmic reticulum; Apoptosis                                             |
| <b>Function</b>            | identical protein binding; metal ion binding; protein binding; protein heterodimerization activity |

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