

## Recombinant Human PHB, His-tagged

**Cat. No.** PHB-7543H    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant human PHB protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>       | 1-272aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Antigen Description</b> | <p>PHB is an evolutionarily conserved gene that is ubiquitously expressed. It is thought to be a negative regulator of cell proliferation and may be a tumor suppressor.</p> <p>Mutations in PHB have been linked to sporadic breast cancer. Prohibitin is expressed as two transcripts with varying lengths of 3' untranslated region. The longer transcript is present at higher levels in proliferating tissues and cells, suggesting that this longer 3' untranslated region may function as a trans-acting regulatory RNA.</p> |
| <b>Form</b>                | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>      | 31.9 kDa(292aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>         | MGSSHHHHHH SSGLVPRGSH MAAKVFESIG KFGALAVAG GVVNSALYNV<br>DAGHRAVIFD RFRGVQDIVV GEGTHFLIPW VQKPIIFDCR SRPRNVPVIT<br>GSKDLQNVNI TLRILFRPVA SQLPRIFTSI GEDYDERVLP SITTEILKSV<br>VARFDAGELI TQRELVSRQV SDDLTERAAT FGLILDDVSL THLTFGKEFT<br>EAVEAKQVAQ QEAERARFVV EKAEQQKAA IISAEGDSKA AELIANSLAT                                                                                                                                                                                                                                        |

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AGDGLIELRK LEAAEDIAYQ LSRSRNITYL PAGQSVLLQL PQ

**Purity** >85% as determined by SDS - PAGE

**Applications** SDS-PAGE

**Storage** 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.

**Concentration** 1 mg/ml

## GENE INFORMATION

**Gene Name** PHB prohibitin [ Homo sapiens ]

**Official Symbol** PHB

**Synonyms** PHB; prohibitin; PHB1;

**Gene ID** 5245

**mRNA Refseq** NM\_002634

**Protein Refseq** NP\_002625

**MIM** 176705

**UniProt ID** P35232

**Chromosome Location** 17q21

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**Function**

histone deacetylase binding; protein binding; transcription regulatory region DNA binding;

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