Prohibitin (PHB) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Prohibitin (Phb), Recombinant Protein
Full Product Name	Recombinant Mouse Prohibitin (Phb), Partial
Product Gene Name	Phb recombinant protein
Product Synonym Names	B-cell receptor-associated protein 32; BAP 32
Sequence	MAAKVFESIG KFGLALAVAG GVVNSALYNV DAGHRAVIFD
Host	E Coli
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Specificity	Widely expressed in different tissues.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.
Molecular Weight	8.1 kDa
Sequence Positions	1-40aa; Partial
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P67778
Species	Mouse
Tag	N-terminal 6xHis-tagged
Subcellular Location	Mitochondrion Inner Membrane
Protein Families	Prohibitin family
Product Categories/Family for Phb recombinant protein	Cancer
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Phb recombinant protein	Prohibitin inhibits DNA synthesis. It has a role in regulating proliferation. As yet it is unclear if the protein or the mRNA exhibits this effect. May play a role in regulating mitochondrial respiration activity and in aging (By similarity).
Product References and Citations for Phb recombinant protein	"Mammalian prohibitin proteins respond to mitochondrial stress and decrease during cellular senescence." Coates P.J., Nenutil R., McGregor A., Picksley S.M., Crouch D.H., Hall P.A., Wright E.G. Exp. Cell Res. 265:262-273(2001).
Other Notes	Small volumes of Phb recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Phb purchase	MBS7115240 is a recombinant protein targeting Phb. Also known as Recombinant Mouse Prohibitin (Phb), Partial. Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Phb. It may not necessarily be applicable to this product.

NCBI GI #	6679299
NCBI GeneID	18673
NCBI Accession #	NP_032857.1
UniProt Primary Accession #	P67778
UniProt Related Accession #	P67778
GenBank Nucleotide #	NM_008831.4
NCBI Official Full Name	prohibitin
NCBI Official Synonym Full Names	prohibitin
NCBI Official Symbol	Phb
NCBI Official Synonym Symbols	Bap32
UniProt Protein Name	Prohibitin
UniProt Synonym Protein Names	B-cell receptor-associated protein 32; BAP 32
Protein Family	Prohibitin
UniProt Gene Name	Phb
UniProt Synonym Gene Names	BAP 32
NCBI Protein Information	prohibitin
UniProt Comments for Phb	Prohibitin inhibits DNA synthesis. It has a role in regulating proliferation. As yet it is unclear if the protein or the mRNA exhibits this effect. May play a role in regulating mitochondrial respiration activity and in aging ().
Research Articles on Phb	**1.** prohibitin is an important negotiator protein that regulates dopaminergic cell death in substantia nigra and their protection in ventral tegmental area in Parkinson's Disease.
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