Phospho-BACH1 (Ser445) Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	BACH1, Blocking Peptide
Full Product Name	Phospho-BACH1 (Ser445) Blocking Peptide
Product Gene Name	BACH1 blocking peptide
Product Synonym Names	BACH 1; BACH 1.3; Bach1; BACH1_HUMAN; Basic leucine zipper transcription factor 1; basic region leucine zipper transcriptional regulator BACH1; BTB and CNC homolog 1; BTB and CNC homology 1; BTB and CNC homology 1, basic leucine zipper transcription factor 1; HA2303; OTTHUMP00000096563; OTTHUMP00000096564; Transcription regulator protein BACH1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	BACH1 (Ser445) peptide (MBS9618169) is used for blocking the activity of BACH1 (Ser445) antibody (MBS9610451)
Molecular Weight	81,958 Da
Chromosome Location	Chromosome: 21; NC_000021.8 (30671220..30734217). Location: 21q22.11
OMIM	602751
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for BACH1 blocking peptide	Blocking/Control
Related Product Information for BACH1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of BACH1 blocking peptide 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 BACH1 purchase	MBS9618169 is a blocking peptide targeting BACH1. Also known as Phospho-BACH1 (Ser445) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BACH1. It may not necessarily be applicable to this product.

NCBI GI #	4502353
NCBI GeneID	571

NCBI Accession #	NP_001177.1
UniProt Primary Accession #	O14867
UniProt Secondary Accession #	O43285
UniProt Related Accession #	O14867
GenBank Nucleotide #	NP_001177.1
NCBI Official Full Name	transcription regulator protein BACH1
NCBI Official Synonym Full Names	BTB and CNC homology 1, basic leucine zipper transcription factor 1
NCBI Official Symbol	BACH1
NCBI Official Synonym Symbols	BACH-1
UniProt Protein Name	Transcription regulator protein BACH1
UniProt Synonym Protein Names	BTB and CNC homolog 1; HA2303
Protein Family	Transcription regulator protein
UniProt Gene Name	BACH1
UniProt Entry Name	BACH1_HUMAN
NCBI Protein Information	transcription regulator protein BACH1; HA2303; BTB and CNC homolog 1; basic region leucine zipper transcriptional regulator BACH1
NCBI Summary for BACH1	This gene encodes a transcription factor that belongs to the cap'n'collar type of basic region leucine zipper factor family (CNC-bZip). The encoded protein contains broad complex, tramtrack, bric-a-brac/poxvirus and zinc finger (BTB/POZ) domains, which is atypical of CNC-bZip family members. These BTB/POZ domains facilitate protein-protein interactions and formation of homo- and/or hetero-oligomers. When this encoded protein forms a heterodimer with MafK, it functions as a repressor of Maf recognition element (MARE) and transcription is repressed. Multiple alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, May 2009]
UniProt Comments for BACH1	BACH1: a transcriptional regulator that acts as a repressor or activator. Binds, in-vitro, to NF-E2 binding sites on DNA. Plays an important role in coordinating transcription activation and repression by NF-E2. Belongs to the bZIP family, CNC subfamily. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 21q22.11 Cellular Component: nucleoplasm; cytoplasm; nucleus; cytosol Molecular Function: heme binding; transcription factor activity Biological Process: G1/S-specific transcription in mitotic cell cycle; regulation of transcription, DNA-dependent; transcription, DNA-dependent; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription from RNA polymerase II promoter; G2/M-specific transcription in mitotic cell cycle
Research Articles on BACH1	**1.** let-7 miRNA directly acts on the 3'-UTR of Bach1 and negatively regulates expression of this protein, and thereby up-regulates HMOX1 gene expression.
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