

**Phospho-MAX(Y123) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP3355a****Specification****Phospho-MAX(Y123) Blocking Peptide - Product Information**Primary Accession [P61244](#)**Phospho-MAX(Y123) Blocking Peptide - Additional Information****Gene ID** 4149**Other Names**

Protein max, Class D basic helix-loop-helix protein 4, bHLHd4, Myc-associated factor X, MAX, BHLHD4

**Target/Specificity**

The synthetic peptide sequence is selected from aa 116-130 of HUMAN MAX

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Phospho-MAX(Y123) Blocking Peptide - Protein Information****Name** MAX ([HGNC:6913](#))**Synonyms** BHLHD4**Function**

Transcription regulator. Forms a sequence-specific DNA- binding protein complex with MYC or MAD which recognizes

**Phospho-MAX(Y123) Blocking Peptide - Background**

The protein encoded by this gene is a member of the basic helix-loop-helix leucine zipper (bHLHZ) family of transcription factors. It is able to form homodimers and heterodimers with other family members, which include Mad, Mxi1 and Myc. Myc is an oncoprotein implicated in cell proliferation, differentiation and apoptosis. The homodimers and heterodimers compete for a common DNA target site (the E box) and rearrangement among these dimer forms provides a complex system of transcriptional regulation. Multiple alternatively spliced transcript variants have been described for this gene but the full-length nature for some of them is unknown.

**Phospho-MAX(Y123) Blocking Peptide - References**

Faiola,F., Biochem. J. 403 (3), 397-407 (2007)  
Gordan,J.D., Cancer Cell 11 (4), 335-347 (2007)  
Fujii,M., Mol. Cell 24 (5), 771-783 (2006)  
Zada,A.A., Leukemia 20 (12), 2137-2146 (2006)

the core sequence 5'-CAC[GA]TG-3'. The MYC:MAX complex is a transcriptional activator, whereas the MAD:MAX complex is a repressor. May repress transcription via the recruitment of a chromatin remodeling complex containing H3 'Lys-9' histone methyltransferase activity. Represses MYC transcriptional activity from E-box elements.

**Cellular Location**

Nucleus. Cell projection, dendrite.

**Tissue Location**

High levels found in the brain, heart and lung while lower levels are seen in the liver, kidney and skeletal muscle

**Phospho-MAX(Y123) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)