

MXI1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14974c**Specification**

MXI1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P50539](#)**MXI1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 4601**Other Names**

Max-interacting protein 1, Max interactor 1, Class C basic helix-loop-helix protein 11, bHLHc11, MXI1, BHLHC11

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.

MXI1 Antibody (Center) Blocking Peptide - Protein Information**Name** MXI1**Synonyms** BHLHC11**Function**

Transcriptional repressor. MXI1 binds with MAX to form a sequence-specific DNA-binding protein complex which recognizes the core sequence 5'-CAC[GA]TG-3'. MXI1 thus antagonizes MYC transcriptional activity by competing for MAX.

Cellular Location

Nucleus.

Tissue Location

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

MXI1 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MXI1 Antibody (Center) Blocking Peptide - Images

MXI1 Antibody (Center) Blocking Peptide - Background

Expression of the c-myc gene, which produces an oncogenic transcription factor, is tightly regulated in normal cells but is frequently deregulated in human cancers. The protein encoded by this gene is a transcriptional repressor thought to negatively regulate MYC function, and is therefore a potential tumor suppressor. This protein inhibits the transcriptional activity of MYC by competing for MAX, another basic helix-loop-helix protein that binds to MYC and is required for its function. Defects in this gene are frequently found in patients with prostate tumors. Three alternatively spliced transcripts encoding different isoforms have been described. Additional alternatively spliced transcripts may exist but the products of these transcripts have not been verified experimentally.

MXI1 Antibody (Center) Blocking Peptide - References

Lofstedt, T., et al. Exp. Cell Res. 315(11):1924-1936(2009) Baranzini, S.E., et al. Hum. Mol. Genet. 18(4):767-778(2009) Tsao, C.C., et al. Cancer Biol. Ther. 7(10):1619-1627(2008) Suo, X.H., et al. Zhonghua Xue Ye Xue Za Zhi 28(11):745-749(2007) Dugast-Darzacq, C., et al. FEBS J. 274(17):4643-4653(2007)