

MEIS2 Antibody (Center D269) Blocking peptide
Synthetic peptide
Catalog # BP5518c**Specification**

MEIS2 Antibody (Center D269) Blocking peptide - Product Information

Primary Accession [O14770](#)
Other Accession [NP_733775](#)

MEIS2 Antibody (Center D269) Blocking peptide - Additional Information

Gene ID 4212

Other Names

Homeobox protein Meis2, Meis1-related protein 1, MEIS2, MRG1

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.

MEIS2 Antibody (Center D269) Blocking peptide - Protein Information

Name MEIS2

Synonyms MRG1

Function

Involved in transcriptional regulation. Binds to HOX or PBX proteins to form dimers, or to a DNA-bound dimer of PBX and HOX proteins and thought to have a role in stabilization of the homeoprotein-DNA complex. Isoform 3 is required for the activity of a PDX1:PBX1b:MEIS2b complex in pancreatic acinar cells involved in the transcriptional activation of the ELA1 enhancer; the complex binds to the enhancer B element and cooperates with the transcription factor 1 complex (PTF1) bound to the enhancer A element; MEIS2 is not involved in complex DNA-binding. Probably in complex with PBX1, is involved in transcriptional regulation by KLF4. Isoform 3 and isoform 4 can bind to a EPHA8 promoter sequence containing the DNA motif 5'-CGGTCA-3'; in cooperation with a PBX protein (such as PBX2) is proposed to be involved in the transcriptional activation of EPHA8 in the developing midbrain. May be involved in regulation of myeloid differentiation. Can bind to the DNA sequence 5'-TGACAG-3' in the activator ACT sequence of the D(1A) dopamine receptor (DRD1) promoter and activate DRD1 transcription; isoform 5 cannot activate DRD1 transcription.

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108}. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:P97367}

Tissue Location

Expressed in various tissues. Expressed at high level in the lymphoid organs of hematopoietic tissues. Also expressed in some regions of the brain, such as the putamen

MEIS2 Antibody (Center D269) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

MEIS2 Antibody (Center D269) Blocking peptide - Images**MEIS2 Antibody (Center D269) Blocking peptide - Background**

MEIS2 is a homeobox protein belonging to the TALE('three amino acid loop extension') family of homeodomain-containing proteins. TALE homeobox proteins are highly conserved transcription regulators, and several members have been shown to be essential contributors to developmental programs.

MEIS2 Antibody (Center D269) Blocking peptide - References

Adkins, D.E., et al. Mol. Psychiatry (2010) Milech, N., et al. Leuk. Res. 34(3):358-363(2010) Vasan, R.S., et al. JAMA 302(2):168-178(2009) Steelman, S., et al. Genome Res. 7(2):142-156(1997)