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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

MEIS2 Antibody (Center D269) Blocking peptide - Background

MEIS2 is a homeobox protein belonging to the TALE('three amino acid loop extension') family ofhomeodomain-containing proteins. TALE homeobox proteins are highlyconserved transcription regulators, and several members have beenshown 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)

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