

## **MEIS2 Antibody**

Rabbit mAb Catalog # AP91716

## **Specification**

#### **MEIS2 Antibody - Product Information**

Application WB, FC
Primary Accession O14770
Reactivity Rat

Clonality Monoclonal

**Other Names** 

Meis homeobox 2; Meis1 related gene 1; MEIS2; MGC2820; MRG1;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 51790 Da

# **MEIS2 Antibody - Additional Information**

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

MEIS2

Description 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.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline ,

pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

# **MEIS2 Antibody - 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





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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**

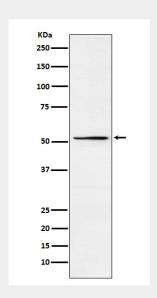
Expressed in various tissues. Expressed at high level in the lymphoid organs of hematopoietic tissues. Also expressed in some regions of the brain, such as the putamen

# **MEIS2 Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## **MEIS2 Antibody - Images**



Western blot analysis of MEIS2 expression in HepG2 cell lysate.