

Goat Anti-MEIS1 Antibody

Peptide-affinity purified goat antibody Catalog # AF1664a

Specification

Goat Anti-MEIS1 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Concentration Isotype Calculated MW WB, E <u>O00470</u> NP_002389, 4211, 17268 (mouse), 686117 (rat) Human Mouse, Rat Goat Polyclonal 100ug/200ul IgG 43016

Goat Anti-MEIS1 Antibody - Additional Information

Gene ID 4211

Other Names Homeobox protein Meis1, MEIS1

Dilution WB~~1:1000 E~~N/A

Format

0.5 mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-MEIS1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-MEIS1 Antibody - Protein Information

Name MEIS1

Function

Acts as a transcriptional regulator of PAX6. Acts as a transcriptional activator of PF4 in complex with PBX1 or PBX2. Required for hematopoiesis, megakaryocyte lineage development and vascular



patterning. May function as a cofactor for HOXA7 and HOXA9 in the induction of myeloid leukemias.

Cellular Location Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108}.

Tissue Location

Expressed at low level in normal immunohepatopoietic tissues, including the fetal liver. Expressed in a subset of myeloid leukemia cell lines, with the highest expression seen in those with a megakaryocytic-erythroid phenotype. Also expressed at high levels in the cerebellum

Goat Anti-MEIS1 Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Goat Anti-MEIS1 Antibody - Images

250kDa 150kDa 100kDa 75kDa
50kDa 37kDa
25kDa 20kDa
15kDa

AF1664a (0.1 μ g/ml) staining of Human Cerebral Cortex lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-MEIS1 Antibody - Background

Homeobox genes, of which the most well-characterized category is represented by the HOX genes, play a crucial role in normal development. In addition, several homeoproteins are involved in neoplasia. This gene encodes a homeobox protein belonging to the TALE ('three amino acid loop extension') family of homeodomain-containing proteins.

Goat Anti-MEIS1 Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

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GSK-3 promotes conditional association of CREB and its coactivators with MEIS1 to facilitate HOX-mediated transcription and oncogenesis. Wang Z, et al. Cancer Cell, 2010 Jun 15. PMID 20541704.

Genotyping sleep disorders patients. Kripke DF, et al. Psychiatry Investig, 2010 Mar. PMID 20396431.

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