

Rabbit Anti-MEIS1/Cy5 Conjugated antibody

SL6680R-Cy5

Product Name	Anti-MEIS1/Cy5
Chinese Name	Cy5 标记的同源盒蛋白 Meis1 抗体
Alias	Meis1 myeloid ecotropic viral integration site 1 homolog mouse; Homeo box protein Meis1; Homeobox protein Meis1; Leukemogenic homolog protein; MEIS 1; Meis homeo box 1; Meis homeobox 1; Meis1; Meis1 mouse homolog; Meis1 myeloid ecotropic viral integration site 1 homolog; MEIS1 protein; MEIS1_HUMAN; myeloid ecotropic viral integration site 1 homolog.
Research Area	Chromatin and nuclear signals Signal transduction Stem cells
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse(predicted:Human,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit) IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	43kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human MEIS1
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	background: 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.

Tissue specificity; 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.

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.

Subunit:

Interacts with the N-terminal region of PBX1 to form a heterodimer which binds DNA including a cAMP-responsive sequence in CYP17. Also forms heterodimers with PBX2. Forms heterotrimers with PBX1 or PBX2 and a number of HOX proteins including HOXA9, HOXD4 and HOXD9 where it acts as a non-DNA-binding partner. Also forms heterotrimers with PBX1 and HOX proteins including HOXD9 and HOXD10 where PBX1 is the non-DNA-binding partner.

Subcellular Location:

Nucleus.

Tissue Specificity:

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.

DISEASE:

Defects in MEIS1 could be a cause of susceptibility to restless legs syndrome type 7 (RLS7) [MIM:612853]. Restless legs syndrome (RLS) is a neurologic sleep/wake disorder characterized by uncomfortable and unpleasant sensations in the legs that appear at rest, usually at night, inducing an irresistible desire to move the legs. The disorder results in nocturnal insomnia and chronic sleep deprivation.

Similarity:

Belongs to the TALE/MEIS homeobox family.
Contains 1 homeobox DNA-binding domain.

Database links:



[Entrez Gene: 4211](#) Human

[Entrez Gene: 17268](#) Mouse

[Entrez Gene: 686117](#) Rat

[Entrez Gene: 170446](#) Zebrafish

[Omim: 601739](#) Human

[SwissProt: O00470](#) Human

[SwissProt: Q60954](#) Mouse

[Unigene: 526754](#) Human

[Unigene: 603755](#) Human

[Unigene: 356578](#) Mouse

[Unigene: 445192](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.