

Rabbit Anti-Meis homeobox 3/AF350 Conjugated antibody

SL11889R-AF350

Product Name	Anti-Meis homeobox 3/AF350
Chinese Name	AF350 标记的同源盒蛋白 MEIS3 抗体
Alias	Homeobox protein meis3; Meis1 myeloid ecotropic viral integration site 1 homolog 3; Meis1 related protein 2; Meis1-related protein 2 antibodymeis3; MEIS3_HUMAN; MRG2.
Research Area	Cell biology Developmental biology Neurobiology Signal transduction Stem cells transcriptional regulatory factor Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat(predicted:Mouse,Dog,Rabbit,Sheep)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	41kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Meis homeobox 3
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: Hox, Pbx and Meis families of transcription factors form heteromeric complexes and bind DNA through specific homeobox domains. Hox proteins are involved in regulating tissue patterning during development, and are also

expressed in lineage- and stage-specific patterns during adult hematopoietic differentiation and in leukemias. The Hox proteins, which include paralog groups 1-10, have a low intrinsic binding affinity for DNA and are instead associated into cooperative DNA binding complexes with Pbx or the Pbx-related Meis proteins, which result in an enhanced Hox-DNA binding affinity and an increased selectivity for the binding site. Both Meis1 and Meis2 (also known as Meis-related gene 1 or Mrg1) are members of the TALE (“three amino acid loop extension”) family of homeodomain-containing proteins. In addition to binding with Hox proteins, Meis1 also forms heterodimers with the ubiquitously expressed Pbx proteins, including Pbx1, Pbx2 and Pbx3, and these complexes contain distinct DNA-binding specificities. Like Hox and Pbx proteins, Meis1 is implicated in oncogenesis, as it is overexpressed as a result of adjacent retroviral insertion in BHX-2 myeloid leukemias. Two Meis-related proteins, Meis2 and Meis3 (also designated Mrg1 and Mrg2, respectively), possess largely similar sequence identity with Meis1 and are expressed in normal tissues and myeloid leukemias. In the pancreas, Meis2 preferentially associates with Pbx1, and together they associate with the pancreas-specific homeodomain factor, Pdx1, to repress Pdx1-induced transcriptional activation.

Subcellular Location:

Nucleus.

Similarity:

Belongs to the TALE/MEIS homeobox family.

Contains 1 homeobox DNA-binding domain.

Database links:

Homeobox protein meis3; Meis1 myeloid ecotropic viral integration site 1 homolog 3; Meis1 related protein 2; Meis1-related protein 2 antibodymeis3; MEIS3_HUMAN; MRG2.

Important Note:

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