



Rabbit Anti-MEIS2 antibody

SL11885R

Product Name:	MEIS2
Chinese Name:	同源盒蛋白Meis2抗体
Alias:	Homeobox protein Meis2; HsT18361; Meis (mouse) homolog 2; Meis homeobox 2; Meis homolog 2; Meis1 myeloid ecotropic viral integration site 1 homolog 2 (mouse); Meis1 myeloid ecotropic viral integration site 1 homolog 2 antibodyMeis1 related gene 1; Meis1 related protein 1; Meis1-related protein 1; MEIS2; MEIS2_HUMAN; MGC2820; MRG1; TALE homeobox protein Meis2
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	52kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MEIS2:61-170/477
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% 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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 BHL-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.

Tissue Specificity:

Expressed in various tissues. In hematopoietic tissues, the lymphoid organs express high levels of MEIS2. Also expressed in some regions of the brain, such as the putamen.

Similarity:

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

SWISS:

O14770

Gene ID:

4212

Database links:

[Entrez Gene: 539573](#)Cow

[Entrez Gene: 612759](#)Dog

[Entrez Gene: 4212](#)Human

[Entrez Gene: 17536](#)Mouse

[Entrez Gene: 311311](#)Rat

[Oimim: 601740](#)Human

[SwissProt: O14770](#)Human

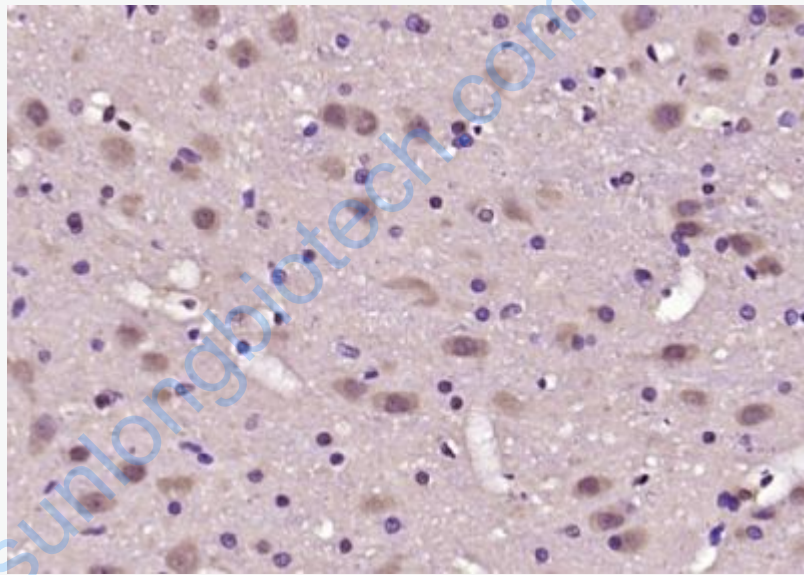
[SwissProt: P97367](#)Mouse

[Unigene: 510989](#)Human

[Unigene: 247566](#)Mouse

Important Note:

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



Picture:

Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MEIS2) Polyclonal Antibody, Unconjugated (SL11885R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.