



Rabbit Anti-Meis homeobox 3 antibody

SL11889R

Product Name:	Meis homeobox 3
Chinese Name:	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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Mouse,Rat,Dog,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:	41kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Meis homeobox 3:121-220/375
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.

Similarity:

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

SWISS:

Q99687

Gene ID:

56917

Database links:

[Entrez Gene: 56917](#)Human

[Entrez Gene: 17537](#)Mouse

[Entrez Gene: 361514](#)Rat

[SwissProt: Q99687](#)Human

[SwissProt: P97368](#)Mouse

[Unigene: 380923](#)Human

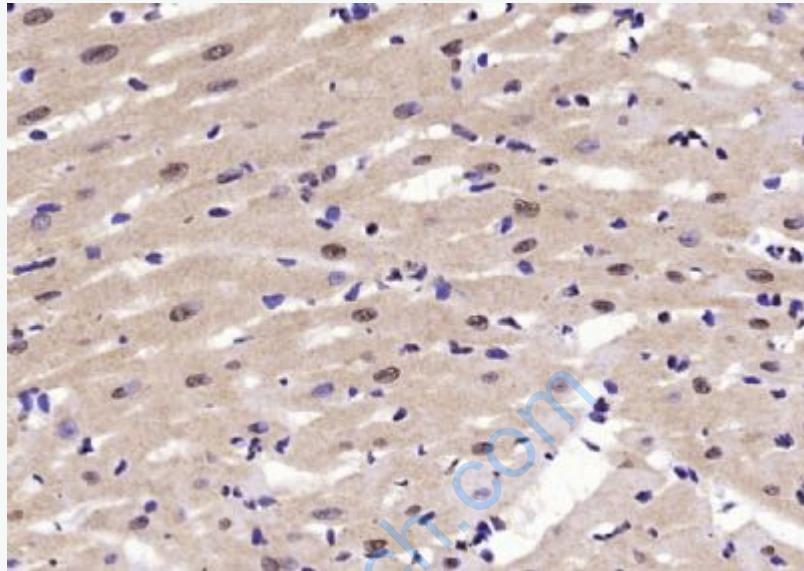
[Unigene: 360516](#)Mouse

[Unigene: 480231](#)Mouse

Important Note:

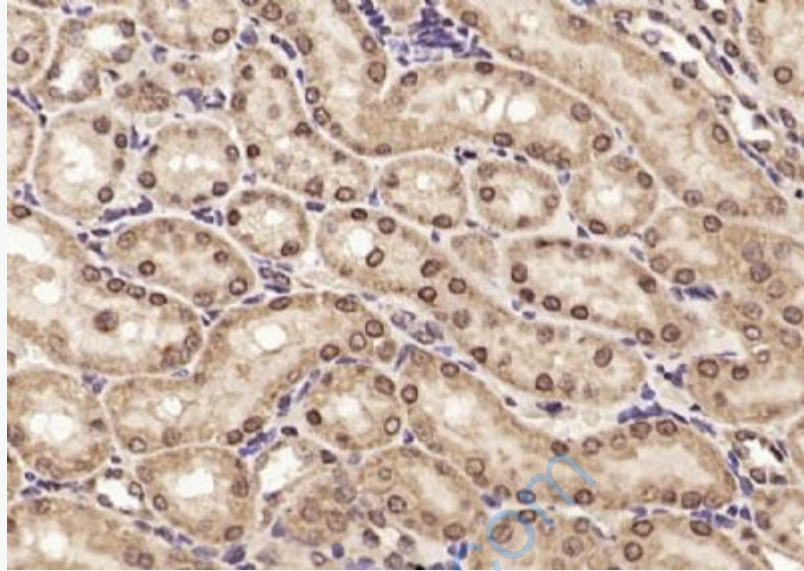
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therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (rat heart); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (Meis homeobox 3) Polyclonal Antibody, Unconjugated (SL11889R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (Meis homeobox 3) Polyclonal Antibody, Unconjugated (SL11889R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.