



Rabbit Anti-Hoxb3 antibody

SL12309R

Product Name:	Hoxb3
Chinese Name:	同源盒蛋白HoxB3抗体
Alias:	Homeo box 2G; Homeo box B3; Homeobox B3; Homeobox protein Hox-2.7; Homeobox protein Hox-2G; Homeobox protein Hox-B3; Homeobox protein HoxB3; Hox 2.7; HOX 2G; HOX2; Hox2.7; HOX2G; HOXB3; HXB3_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	44kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Hoxb3:201-300/431
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 genes play a fundamental role in the development of the vertebrate central nervous system, heart, axial skeleton, limbs, gut, urogenital tract and external genitalia. There are multiple transcripts of the Hoxb3 gene, and the anterior boundaries of its expression vary at different stages of development. Hoxb3 plays a role in the proliferation and differentiation of both early myeloid and lymphoid developmental pathways. Hoxb3 also has overlapping function in mediating the migration of

pharyngeal organ primordia and is expressed in very restricted domains in the future hindbrain. Hoxb6 controls the generation, proliferation and survival of erythroid progenitor cells. The Hoxb6 protein is expressed in the suprabasal layer of the early developing epidermis and throughout the upper layers of late fetal and adult human skin. Hoxb6 is cytoplasmically expressed throughout fetal epidermal development, but displays nuclear expression in normal adult skin. Hoxb6 protein also has nuclear expression in hyperproliferative skin conditions, but appears to be localized in the cytoplasm in basal and squamous cell carcinomas. Hoxb6 genes are also expressed in normal adult lung.

Function:

Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis.

Subcellular Location:

Nucleus.

Similarity:

Belongs to the Antp homeobox family.
Contains 1 homeobox DNA-binding domain.

SWISS:

P14651

Gene ID:

3213

Database links:

[Entrez Gene: 3213](#)Human

[Entrez Gene: 15410](#)Mouse

[Entrez Gene: 303488](#)Rat

[Omim: 142966](#)Human

[SwissProt: P14651](#)Human

[SwissProt: P09026](#)Mouse

[SwissProt: B2RYQ0](#)Rat

Important Note:

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

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