



Rabbit Anti-HOXB1 antibody

SL17363R

Product Name:	HOXB1
Chinese Name:	同源盒蛋白HOXB1抗体
Alias:	HCFP3; Homeo box 2I; Homeo box B1; Homeobox 2I; Homeobox B1; Homeobox protein Hox B1; Homeobox protein Hox-2I; Homeobox protein Hox-B1; Homeobox protein HoxB1; Homeobox2I; HomeoboxB1; HOX 2; Hox 2.9; HOX 2I; HOX B1; HOX2; Hox2.9; HOX2I; HOXB 1; HOXB1; HOXB1 protein; HXB1_HUMAN; MGC116843; MGC116844; MGC116845.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Pig,Rabbit,
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:	32kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HOXB1:221-301/301
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. The homeobox gene Hoxb-1 is critical to hindbrain development and has phenotypic

features frequently observed in autism. Analysis of expression and targeted disruption of Hoxb-1 demonstrates that it is also essential for patterning progenitor cells along the entire DV axis of rhombomere 4 (r4). Hoxb-1 maintains this function by acting very early during hindbrain neurogenesis to specify effectors of the sonic hedgehog and Mash1 signaling pathways. Hoxb2 is a homeodomain protein important in neural development that is also expressed during erythropoiesis, hindbrain development and normal human adult lung development. Hoxb2 may modulate the amount of gamma-globin mRNA expressed during development and differentiation. In addition, Hoxb2 plays an important role in the patterning of hindbrain and pharyngeal arches in the zebrafish.

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. Acts on the anterior body structures.

Subcellular Location:

Nucleus.

Similarity:

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

SWISS:

P14653

Gene ID:

3211

Database links:

[Entrez Gene: 15407](#) Mouse

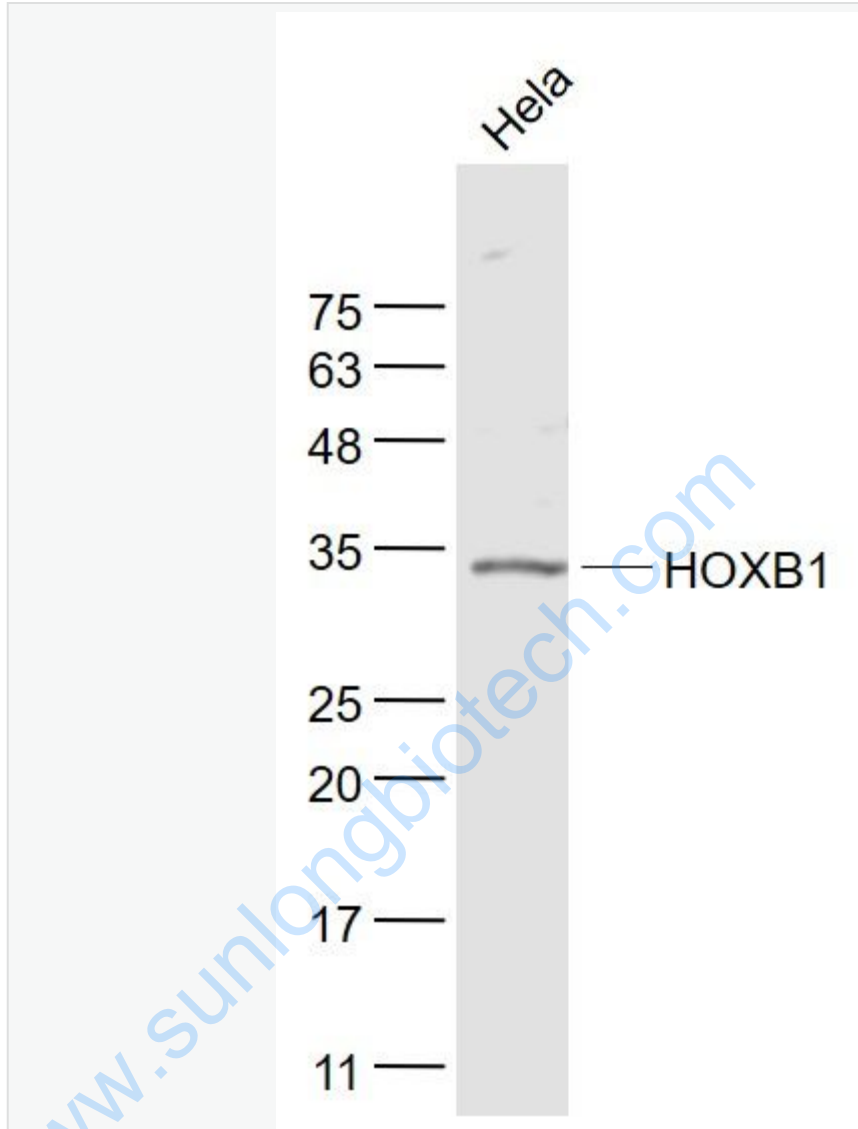
[SwissProt: P17919](#) Mouse

[Unigene: 890](#) Mouse

Important Note:

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

Picture:



Sample:

HeLa(Human) Cell Lysate at 30 ug

Primary: Anti- HOXB1 (SL17363R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 32 kD

Observed band size: 32 kD