

HOXB1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56672**Specification**

HOXB1 Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	P14653
Reactivity	Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HOXB1
Epitope Specificity	221-301/301
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
SIMILARITY	Belongs to the Antp homeobox family. Labial subfamily. Contains 1 homeobox DNA-binding domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

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.

HOXB1 Polyclonal Antibody - Additional Information**Gene ID** 3211**Other Names**

Homeobox protein Hox-B1, Homeobox protein Hox-2I, HOXB1, HOX2I

Dilution

WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

HOXB1 Polyclonal Antibody - Protein Information

Name HOXB1

Synonyms HOX2I

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.

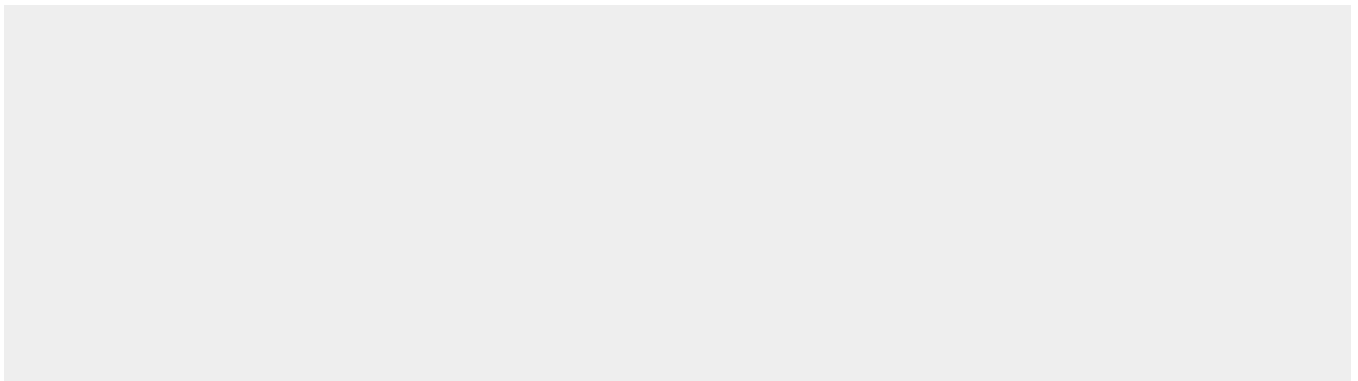
Cellular Location

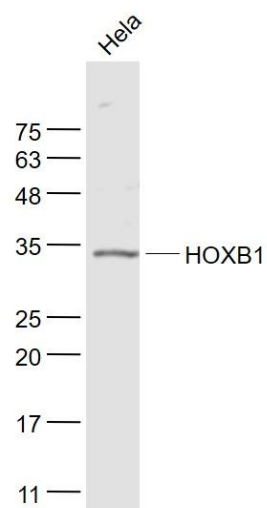
Nucleus.

HOXB1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HOXB1 Polyclonal Antibody - Images



Sample:

HeLa(Human) Cell Lysate at 30 ug

Primary: Anti- HOXB1 (bs-17363R) at 1/300 dilution

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

Predicted band size: 32 kD

Observed band size: 32 kD