

HOXB1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP56672

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	P14653
Reactivity	Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32193
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.

Additional Information

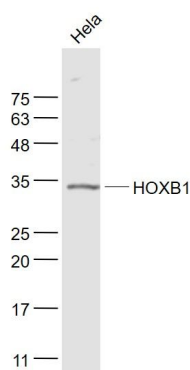
Gene ID	3211
Other Names	Homeobox protein Hox-B1, Homeobox protein Hox-2I, HOXB1, HOX2I
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glycerol
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.

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.

Images



Sample:
 HeLa(Human) Cell Lysate at 30 ug
 Primary: Anti- HOXB1 (AP56672) at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 32 kD
 Observed band size: 32 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.