

DATASHEET

HOXA1/B1/D1 Rabbit Polyclonal Antibody

CAT. NO. APA11683

KEY FEATURES

Target	HOXA1/B1/D1	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

Sequence-specific transcription factor . Regulates multiple developmental processes including brainstem, inner and outer ear, abducens nerve and cardiovascular development and morphogenesis as well as cognition and behavior . Also part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis. Acts on the anterior body structures. Seems to act in the maintenance and/or generation of hindbrain segments . Activates transcription in the presence of PBX1A and PKNOX1 .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to HOXA1/B1/D1
Specificity	Recognizes endogenous levels of HOXA1/B1/D1 protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human HOXA1/B1/D1. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 36; Observed: 36; 34; 32 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	HOXB1; HOX2I; Homeobox protein Hox-B1; Homeobox protein Hox-2I; HOXA1; HOX1F; Homeobox protein Hox-A1; Homeobox protein Hox-1F; HOXD1; HOX4; HOX4G; Homeobox protein Hox-D1; Homeobox protein Hox-GG
Gene Symbol	HOXA1; HOXB1; HOXD1
Entrez Gene	3211; 3198; 3231(Human); 15407(Mouse)
SwissProt	P49639; P14653; Q9GZZ0(Human); P17919; P09022; Q01822(Mouse)

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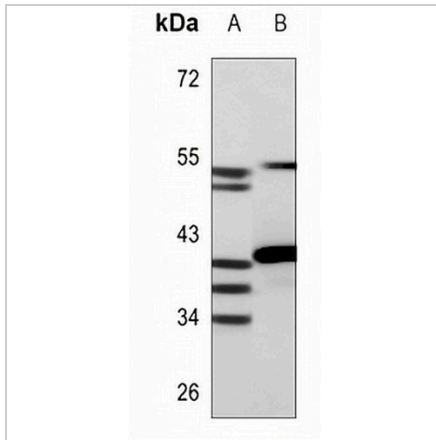
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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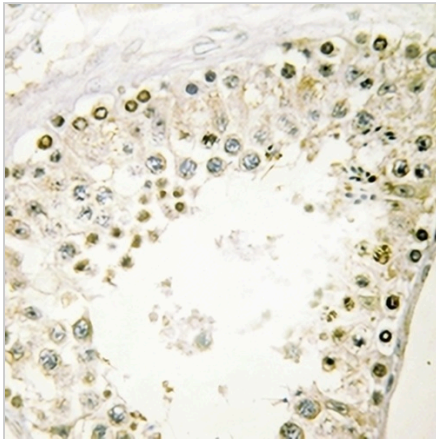
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DATA



Western blot analysis of HOXA1/B1/D1 expression in mouse kidney (A), rat kidney (B) whole cell lysates. (Predicted band size: 36; 32; 34 kD; Observed band size: 36; 34; 32 kD)



Immunohistochemical analysis of HOXA1/B1/D1 staining in human testis formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.