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HOXD12 Rabbit pAb

Catalog # AP100173

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P35452
Other Accession	P35452
Reactivity	Human
Predicted	Rat, Pig, Mouse, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29031
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HOXD12
Epitope Specificity	171-270/270
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the Abd-B homeobox family. 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	The Hox (homeobox) genes play an important role in the development and design of anterior-posterior body axes in animals. Although Hox proteins can bind to DNA as monomers, dimerization with PBX homeoproteins can significantly increase the DNA binding activity of these transcription factors. The HoxD9 gene is involved in the development and patterning of the forelimb and axial skeleton. Transcriptional activation of HoxD9 has been shown to be enhanced by HMG1 (high mobility group protein 1) and antagonized by HoxD8, suggesting that Hox protein function depends on both DNA-protein and protein-protein interactions. The HOX genes are known to regulate a number of cell adhesion molecules (CAMs), with HoxD9 specifically increasing levels of L-CAM transcripts. In presomitic mesoderm, HoxD1 displays dynamic stripes of expression. In the three stages of diencephalon development, HoxD1 is strongly expressed in the first two stages and downregulated in the third stage.

Additional Information

Gene ID	3238
Other Names	HOX4H; Hox-4.7; Hox-5.6; HXD12_HUMAN; HOXD12; Homeobox protein Hox-4H; HXD12_MOUSE; Homeobox protein Hox-4.7; Homeobox protein Hox-5.6; Hoxd-12; homeobox D12; homeo box D12
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

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	HOXD12
Synonyms	HOX4H
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.
Cellular Location	Nucleus.

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