

HOXA4 Rabbit pAb

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Catalog # AP54447

Product Information

Application	WB
Primary Accession	Q00056
Reactivity	Human
Predicted	Rat, Dog, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34499
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HOXA4
Epitope Specificity	151-250/320
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.
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 encode proteins that are transcriptional regulators with an established role in embryonic development. HoxA4 (homeobox A4), also known as HOX1D or HOX1, is a 320 amino acid protein that localizes to the nucleus and contains one homeobox DNA-binding domain. Expressed in the embryonic nervous system, HoxA4 functions as a sequence-specific DNA-binding transcription factor that is part of a regulatory mechanism that provides cells with positional identities during development. Via its ability to bind DNA, HoxA4 plays an important role in the regulation of gene expression, as well as morphogenesis and differentiation. The gene encoding HoxA4 maps to human chromosome 7, which houses over 1,000 genes and comprises nearly 5% of the human genome. Defects in some of the genes localized to chromosome 7 have been linked to Osteogenesis imperfecta, Williams-Beuren syndrome, Pendred syndrome, Lissencephaly, Citrullinemia and Shwachman-Diamond syndrome.

Additional Information

Gene ID	3201
Other Names	Homeobox protein Hox-A4, Homeobox protein Hox-1.4, Homeobox protein Hox-1D, HOXA4, HOX1D
Dilution	WB=1:500-2000
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.

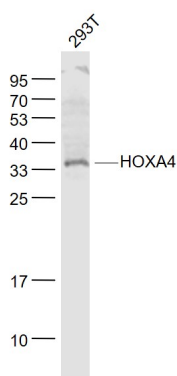
Protein Information

Name	HOXA4
Synonyms	HOX1D
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. Binds to sites in the 5'-flanking sequence of its coding region with various affinities. The consensus sequences of the high and low affinity binding sites are 5'-TAATGA[CG]-3' and 5'-CTAATTTT-3'.
Cellular Location	Nucleus.
Tissue Location	Embryonic nervous system.

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Images



Sample:
293T(Human) Cell Lysate at 30 ug
Primary: Anti- HOXA4 (AP54447) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 34 kD
Observed band size: 34 kD

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