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Datasheet for ABIN3044213

anti-HOXA4 antibody (N-Term)

3 Images

1 Publication

Overview

Quantity:	100 µg
Target:	HOXA4
Binding Specificity:	AA 9-26, N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Homeobox protein Hox-A4(HOXA4) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human HOXA4(9-26aa NSNYIEPKFPFFEEYAQH), different from the related mouse sequence by two amino acids.
Sequence:	NSNYIEPKFP PFFEEYAQH
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Homeobox protein Hox-A4(HOXA4) detection. Tested with

Product Details

WB, IHC-P, ICC in Human, Mouse, Rat.

Gene Name: homeobox A4

Protein Name: Homeobox protein Hox-A4

Purification: Immunogen affinity purified.

Target Details

Target: HOXA4

Alternative Name: HOXA4 ([HOXA4 Products](#))

Background: HOXA4(HOMEBOX A4), also known as HOX1D or HOMOLOG OF, is a protein that in humans is encoded by the HOXA4 gene, which is also part of the A cluster on chromosome 7. HOXA4 encodes a DNA-binding transcription factor which may regulate gene expression, morphogenesis, and differentiation. Its cytogenetic location is 7q15.2. In vertebrates, the genes encoding the class of transcription factors called homeobox genes are found in clusters named A, B, C, and D on four separate chromosomes. Expression of these proteins is spatially and temporally regulated during embryonic development.

Synonyms: Dfd like protein antibody|Homeo box A4 antibody|Homeobox A4 antibody|Homeobox protein Hox-1.4 antibody|Homeobox protein Hox-1D antibody|Homeobox protein Hox-A4 antibody|Hox 1.4 like protein antibody|hox-1.4 antibody|hox-1d antibody|HOX1 antibody|HOX1D antibody|HOXA4 antibody|HXA4_HUMAN antibody

UniProt: [Q00056](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

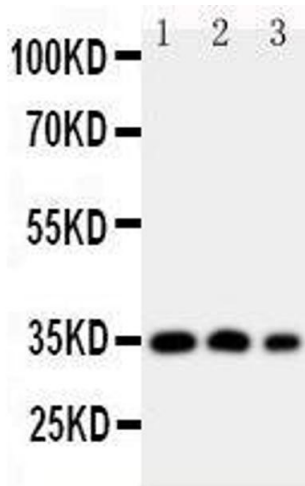
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months

Publications

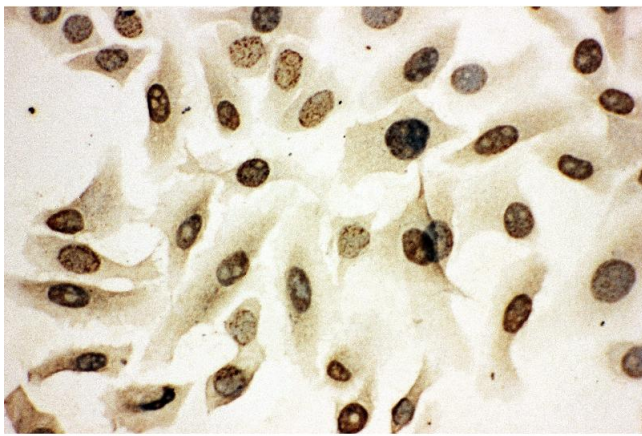
Product cited in: Lang, Schulte, Goddard, Hedrick, Schulte, Wei, Schmiedt: "Transplantation of mouse embryonic stem cells into the cochlea of an auditory-neuropathy animal model: effects of timing after injury." in: **Journal of the Association for Research in Otolaryngology : JARO**, Vol. 9, Issue 2, pp. 225-40, (2008) ([PubMed](#)).

Lang, Ebihara, Schmiedt, Minamiguchi, Zhou, Smythe, Liu, Ogawa, Schulte: "Contribution of bone marrow hematopoietic stem cells to adult mouse inner ear: mesenchymal cells and fibrocytes." in: **The Journal of comparative neurology**, Vol. 496, Issue 2, pp. 187-201, (2006) ([PubMed](#)).



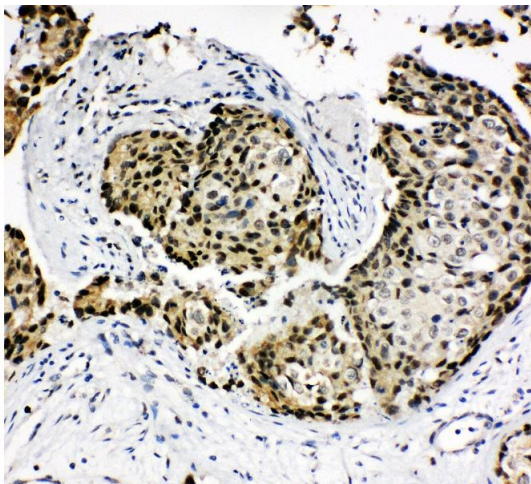
Western Blotting

Image 1. Anti-HOXA4 antibody, Western blotting Lane 1: SW620 Cell Lysate Lane 2: SW620 Cell Lysate Lane 3: PC-12 Cell Nuclear Lysate



Immunohistochemistry

Image 2. Anti-HOXA4 antibody, ICC ICC: HELa Cell



Immunohistochemistry

Image 3. Anti-HOXA4 antibody, IHC(P) IHC(P): Human Mammary Cancer Tissue