




Product datasheet

Anti-HOXA2 antibody ab229960

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Overview

Product name	Anti-HOXA2 antibody
Description	Rabbit polyclonal to HOXA2
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Cow 
Immunogen	Recombinant fragment corresponding to Human HOXA2 aa 1-150. Database link: O43364  Run BLAST with  Run BLAST with
Positive control	IHC-P: Human liver cancer and tonsil tissues. WB: Jurkat whole cell lysate; Mouse liver, kidney and stomach lysates.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), PBS
Purity	Protein G purified
Purification notes	Purity > 95%.
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab229960 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/20 - 1/200.
WB		1/2000 - 1/5000. Detects a band of approximately 42 kDa (predicted molecular weight: 41 kDa).

Target

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.

Involvement in disease

Defects in HOXA2 are a cause of microtia hearing impairment and cleft palate (MHCP) [MIM:612290]. Microtia is a congenital deformity of the outer ear and occurs in approximately one in 8'000-10'000 births. It is characterized by a small, abnormally shaped outer ear. It can be unilateral or bilateral. Syndromic forms of microtia occur in conjunction with other abnormalities. The most common associated malformations is the cleft palate, a congenital fissure of the soft and/or hard palate due to faulty fusion. Defects in HOXA2 are a cause of autosomal-recessive bilateral microtia, mixed symmetrical severe to profound hearing impairment and partial cleft palate.

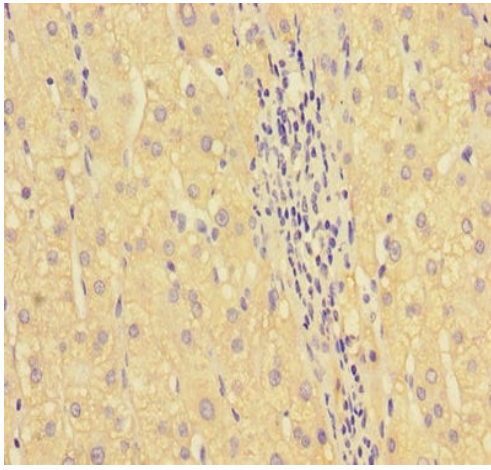
Sequence similarities

Belongs to the Antp homeobox family. Proboscipedia subfamily.
Contains 1 homeobox DNA-binding domain.

Cellular localization

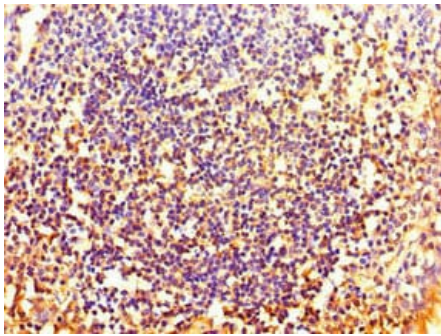
Nucleus.

Images



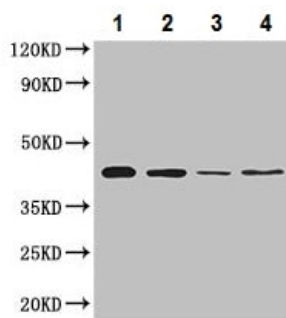
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOXA2 antibody (ab229960)

Paraffin-embedded human liver cancer tissue stained for HOXA2 using ab229960 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOXA2 antibody (ab229960)

Paraffin-embedded human tonsil tissue stained for HOXA2 using ab229960 at 1/100 dilution in immunohistochemical analysis.



Western blot - Anti-HOXA2 antibody (ab229960)

All lanes : Anti-HOXA2 antibody (ab229960) at 1/2000 dilution

Lane 1 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate

Lane 2 : Mouse liver lysate

Lane 3 : Mouse kidney lysate

Lane 4 : Mouse stomach lysate

Secondary

All lanes : Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 41 kDa

Observed band size: 42 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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