abcam

Product datasheet

Anti-Alx1 antibody ab77443

2 Images

Overview

Product name	Anti-Alx1 antibody
Description	Mouse monoclonal to Alx1
Host species	Mouse
Tested applications	**Suitable for:** WB, ELISA
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment, corresponding to amino acids 198-306 of Human Alx1 (NP_008913) with a tag of 26kDa.
Positive control	Hela nuclear lysate. Recombinant tagged Human Alx1 fragment.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: None Constituents: 1X PBS, pH 7.2
Purity	Protein A purified
Clonality	Monoclonal
Isotype	IgG2a
Light chain type	kappa

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab77443 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
WB		Use a concentration of 1 - 5 µg/ml. Detects a band of approximately 42 kDa (predicted molecular weight: 37 kDa).

Application	Abreviews	Notes
ELISA		Use at an assay dependent dilution. Detection limit for recombinant tagged Alx1 is approximately 3ng/ml if used as a capture antibody.

Target

Function
Transcriptional activator that acts at a palindromic recognition sequence to enhance the activity of the SV40 and TK promoters. Functions as a repressor with the prolactin promoter in vivo. May play a role in chondrocyte differentiation and may also influence cervix development.

Tissue specificity
Cartilage and cervix tissue.

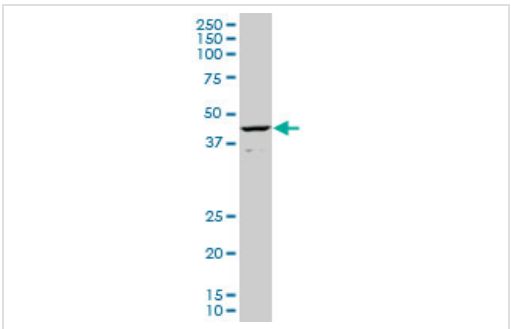
Involvement in disease
Defects in ALX1 are the cause of frontonasal dysplasia type 3 (FND3) [MIM:613456]. The term frontonasal dysplasia describes an array of abnormalities affecting the eyes, forehead and nose and linked to midfacial dysraphia. The clinical picture is highly variable. Major findings include true ocular hypertelorism; broadening of the nasal root; median facial cleft affecting the nose and/or upper lip and palate; unilateral or bilateral clefting of the alae nasi; lack of formation of the nasal tip; anterior cranium bifidum occultum; a V-shaped or widow's peak frontal hairline.

Sequence similarities
Belongs to the paired homeobox family.
Contains 1 homeobox DNA-binding domain.

Post-translational modifications
Acetylated at Lys-131 by EP300, leading to increased interaction with EP300 and enhances transcriptional activation activity.

Cellular localization
Nucleus.

Images

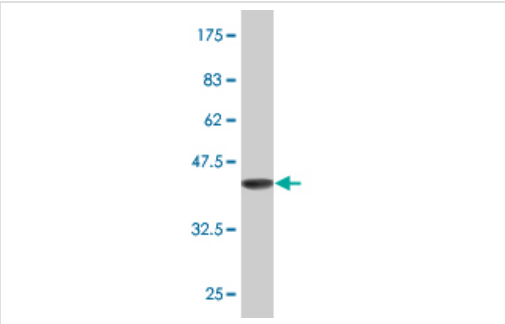


Western blot - Anti-Alx1 antibody (ab77443)

Anti-Alx1 antibody (ab77443) at 1 µg/ml + Hela nuclear lysate at 25 µg

Secondary
Goat anti-mouse IgG (H&L)-HRP conjugate at 1/2500 dilution

Predicted band size: 37 kDa
Observed band size: 42 kDa



Western blot - Anti-Alx1 antibody (ab77443)

Anti-Alx1 antibody (ab77443) at 1 µg/ml + Recombinant tagged Human Alx1 fragment at 0.2 µg

Secondary

Goat anti-mouse IgG (H&L)-HRP conjugate at 1/5000 dilution

Predicted band size: 37 kDa

Observed band size: 42 kDa

Western blot against tagged recombinant protein immunogen.

Predicted band size of immunogen is 38 kDa.

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