abcam

Product datasheet

Anti-Lhx2/LH2 antibody [EPR20449] - BSA and Azide free ab236037

Recombinant RabMAb

11 Images

Overview

Product name	Anti-Lhx2/LH2 antibody [EPR20449] - BSA and Azide free
Description	Rabbit monoclonal [EPR20449] to Lhx2/LH2 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IHC-Fr, IP, IHC-P, WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Mouse olfactory epithelium tissue.
General notes	ab236037 is the carrier-free version of **ab184337**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20449
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab236037 in the following tested applications.

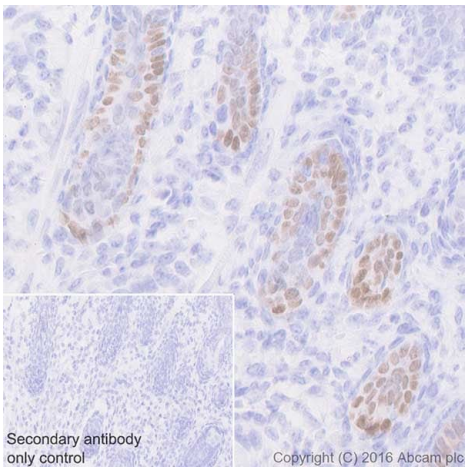
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr		Use at an assay dependent concentration. Antigen retrieval: Heated citrate solution (10mM citrate pH 6.0 + 0.05% Tween-20).
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 47 kDa (predicted molecular weight: 44 kDa).

Target

Function	Acts as a transcriptional activator. Stimulates the promoter of the alpha-glycoprotein gene. Transcriptional regulatory protein involved in the control of cell differentiation in developing lymphoid and neural cell types.
Sequence similarities	Contains 1 homeobox DNA-binding domain. Contains 2 LIM zinc-binding domains.
Domain	LIM domains are necessary for transcription activation.
Cellular localization	Nucleus.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lhx2/LH2 antibody [EPR20449] - BSA and Azide free (ab236037)

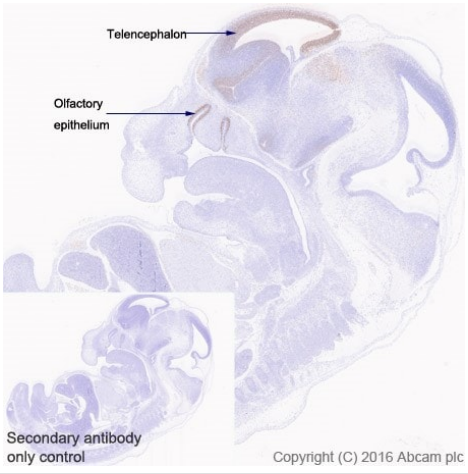
Immunohistochemical analysis of paraffin-embedded nose skin of P0 mouse labeling Lhx2/LH2 with **ab184337** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Nuclear staining on hair follicle of mouse nose skin [PMID: 20386748].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab184337**).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lhx2/LH2 antibody [EPR20449] - BSA and Azide free (ab236037)

Immunohistochemical analysis of paraffin-embedded Mouse E14.5 labeling Lhx2/LH2 with **ab184337** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Nuclear staining on telencephalon and olfactory epithelium of mouse E14.5 [PMID: 25071464].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

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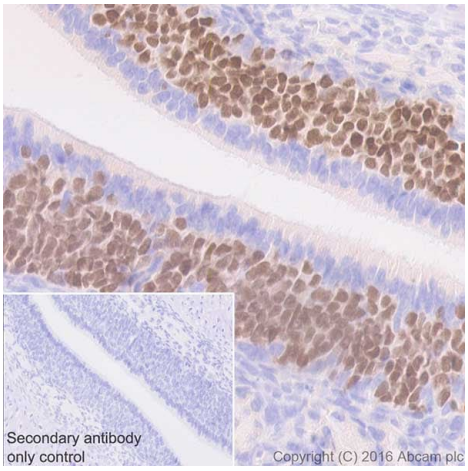

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lhx2/LH2 antibody [EPR20449] - BSA and Azide free (ab236037)

Immunohistochemical analysis of paraffin-embedded rat olfactory epithelium tissue labeling Lhx2/LH2 with **ab184337** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Nuclear staining on rat olfactory epithelium [PMID: 15456728].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab184337**).

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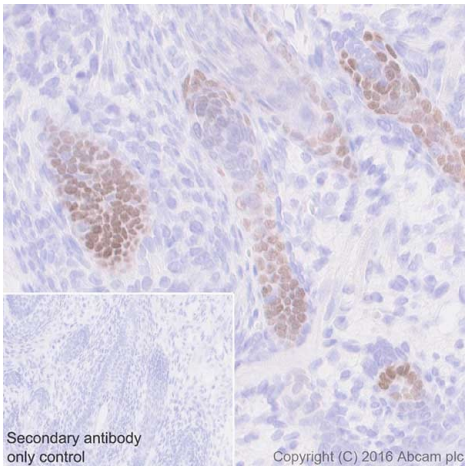

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lhx2/LH2 antibody [EPR20449] - BSA and Azide free (ab236037)

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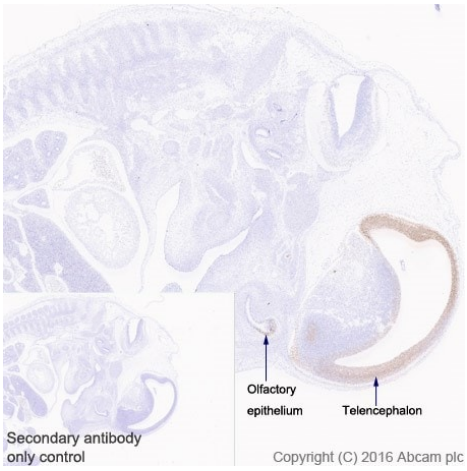

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lhx2/LH2 antibody [EPR20449] - BSA and Azide free (ab236037)

Immunohistochemical analysis of paraffin-embedded Rat E14.5 labeling Lhx2/LH2 with **ab184337** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Nuclear staining on telencephalon and olfactory epithelium of rat E14.5 [PMID: 25071464].

Counter stained with Hematoxylin.

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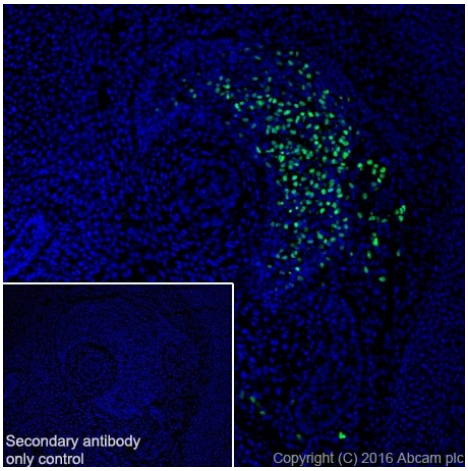
Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



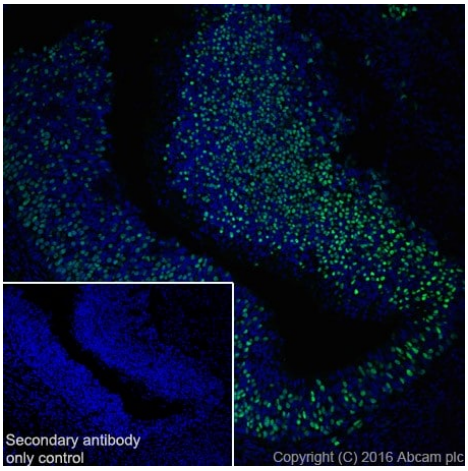
Immunohistochemistry (Frozen sections) - Anti-Lhx2/LH2 antibody [EPR20449] - BSA and Azide free (ab236037)

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized frozen mouse E14.5 labeling Lhx2/LH2 with **ab184337** at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Nuclear staining on vomeronasal organ of mouse E14.5 [PMID: 27521061].

The nuclear counterstain is DAPI (blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab184337**).



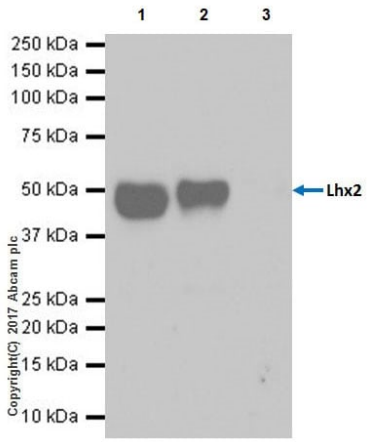
Immunohistochemistry (Frozen sections) - Anti-Lhx2/LH2 antibody [EPR20449] - BSA and Azide free (ab236037)

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized frozen rat E14.5 labeling Lhx2/LH2 with **ab184337** at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Nuclear staining on olfactory epithelium of rat E14.5 [PMID: 15456728].

The nuclear counterstain is DAPI (blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab184337**).



Immunoprecipitation - Anti-Lhx2/LH2 antibody [EPR20449] - BSA and Azide free (ab236037)

Lhx2/LH2 was immunoprecipitated from 0.35 mg of E18 rat brain lysate with **ab184337** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab184337** at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.

Lane 1: E18 rat brain lysate, 10 µg (Input).

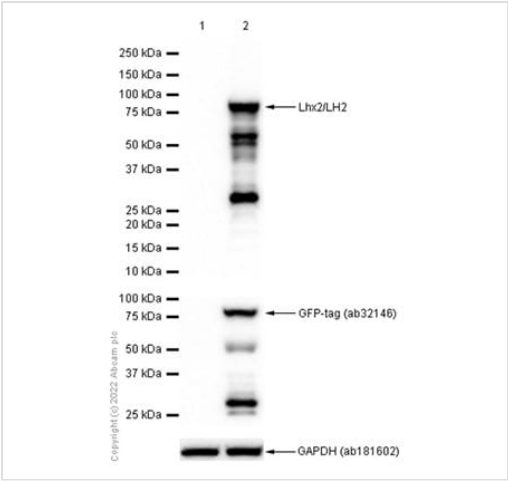
Lane 2: **ab184337** IP in E18 rat brain lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab184337** in E18 rat brain lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab184337**).



Western blot - Anti-Lhx2/LH2 antibody [EPR20449] - BSA and Azide free (ab236037)

All lanes : Anti-Lhx2/LH2 antibody [EPR20449] (**ab184337**) at 1/1000 dilution

Lane 1 : 293T (Human embryonic kidney epithelial cell) whole cell lysate at 20 µg
Lane 2 : 293T transfected with human Lhx2/LH2 (WT) expression vector containing a GFP-tag, whole cell lysate at 1/20 dilution

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

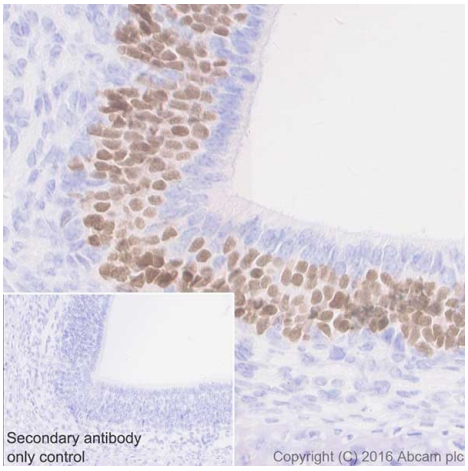
Predicted band size: 44 kDa
Observed band size: 80 kDa

Exposure time: 3 seconds

Blocking buffer and concentration : 5% NFDM/TBST

Diluting buffer and concentration : 5% NFDM/TBST

This data was developed using **ab184337**, the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lhx2/LH2 antibody [EPR20449] - BSA and Azide free (ab236037)

Immunohistochemical analysis of paraffin-embedded mouse olfactory epithelium tissue labeling Lhx2/LH2 with **ab184337** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Nuclear staining on mouse olfactory epithelium [PMID: 15456728].

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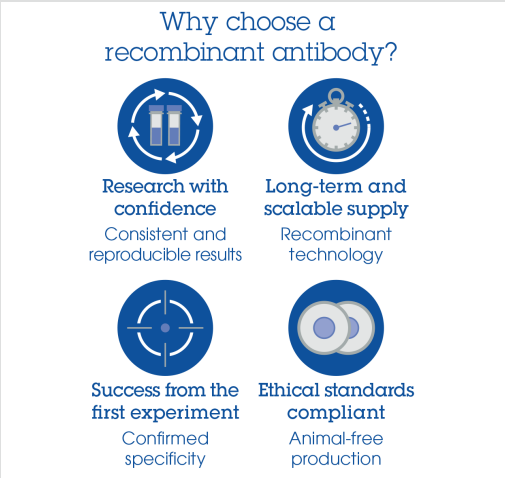

Anti-Lhx2/LH2 antibody [EPR20449] - BSA and Azide free (ab236037)

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