abcam

Product datasheet

Anti-HOXB13 antibody [EPR17371] ab201682

Recombinant RabMAb

5 References 7 Images

Overview

Product name	Anti-HOXB13 antibody [EPR17371]
Description	Rabbit monoclonal [EPR17371] to HOXB13
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human prostate cancer lysate; LNCaP and PC-3 cell lysates. IHC-P: Human carcinoma of prostate tissue. IP: LNCaP cell lysate
General notes	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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR17371
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab201682 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		1/5000. Detects a band of approximately 31 kDa (predicted molecular weight: 31 kDa).
IHC-P		1/3000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/20.

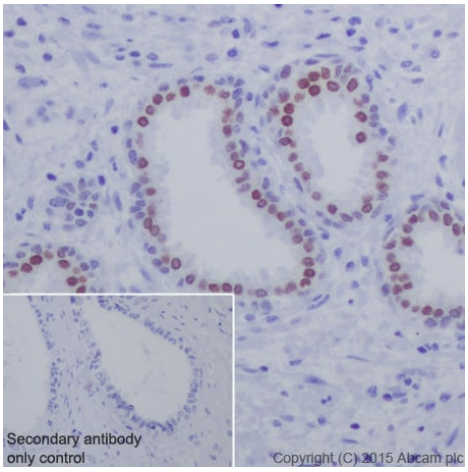
Target

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.

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

Cellular localization Nucleus.

Images

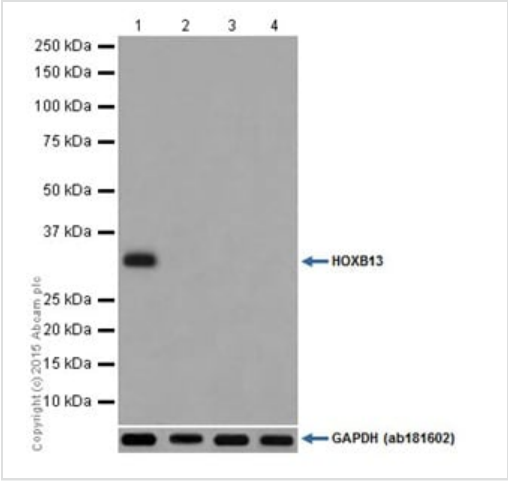


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOXB13 antibody [EPR17371] (ab201682)

Immunohistochemical analysis of paraffin-embedded Human carcinoma of prostate tissue labeling HOXB13 with ab201682 at 1/3000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution. Nuclear staining on Human carcinoma of prostate tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-HOXB13 antibody [EPR17371] (ab201682)

All lanes : Anti-HOXB13 antibody [EPR17371] (ab201682) at 1/5000 dilution

Lane 1 : Human prostate cancer lysate
Lane 2 : Human fetal brain lysate
Lane 3 : Human fetal kidney lysate
Lane 4 : Human fetal spleen lysate

Lysates/proteins at 10 µg per lane.

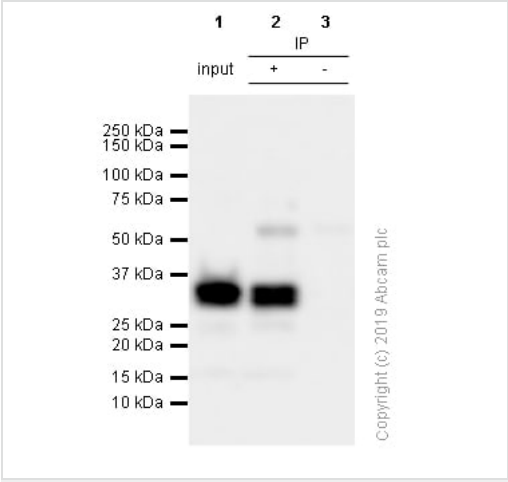
Secondary
All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 31 kDa
Observed band size: 31 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.

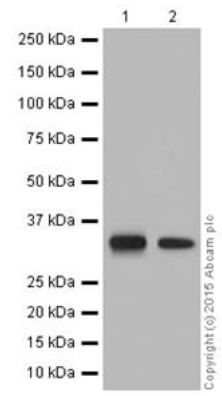
HOXB13 is predominantly expressed in the prostate.



Immunoprecipitation - Anti-HOXB13 antibody [EPR17371] (ab201682)

ab201682 (purified) at 1/20 dilution immunoprecipitating HOXB13 in LNCaP (Human prostate carcinoma epithelial cell) whole cell lysate 10 µg.
Lane 1 (input): LNCaP (Human prostate carcinoma epithelial cell) whole cell lysate 10 µg
Lane 2 (+): ab201682 & LnCaP whole cell lysate
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab201682 in LnCaP whole cell lysate

For western blotting, ab201682 at 1/500 dilution (0.15 µg/mL) and veriBlot for IP secondary antibody (HRP) (**ab131366**) at 1/1000 dilution was used.
Blocking and diluting buffer: 5% NFDM /TBST.



Western blot - Anti-HOXB13 antibody [EPR17371] (ab201682)

All lanes : Anti-HOXB13 antibody [EPR17371] (ab201682) at 1/5000 dilution

Lane 1 : LNCaP (Human prostate cancer cell line) cell lysate
Lane 2 : PC-3 (Human prostate cancer cell line) cell lysate

Lysates/proteins at 10 µg per lane.

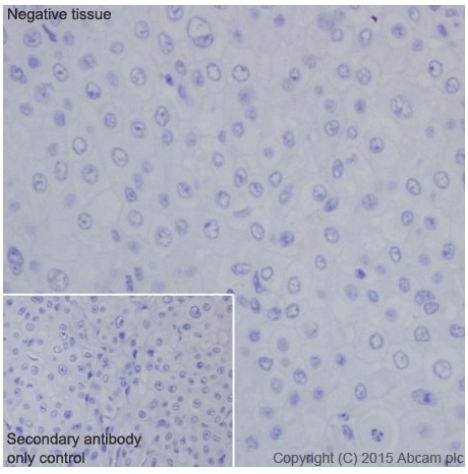
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 31 kDa
Observed band size: 31 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.

HOXB13 is predominantly expressed in the prostate.

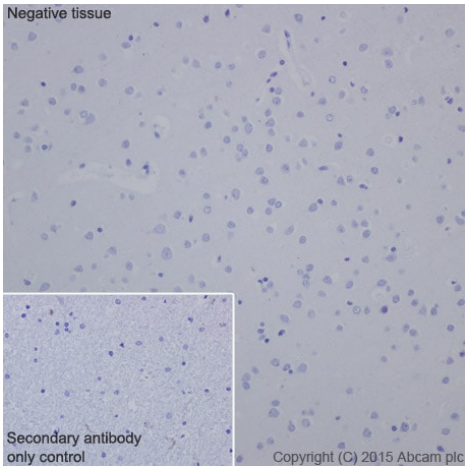


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOXB13 antibody [EPR17371] (ab201682)

Immunohistochemical analysis of paraffin-embedded Human transitional cell carcinoma of bladder tissue labeling HOXB13 with ab201682 at 1/3000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution. Human transitional cell carcinoma of bladder represents a HOXB13 negative tissue. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

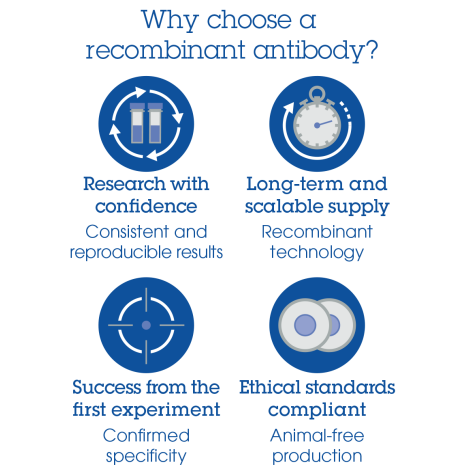


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOXB13 antibody [EPR17371] (ab201682)

Immunohistochemical analysis of paraffin-embedded Human cerebral cortex tissue labeling HOXB13 with ab201682 at 1/3000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution. Human cerebral cortex represents a HOXB13 negative tissue. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Anti-HOXB13 antibody [EPR17371] (ab201682)

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish

- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors