

Anti-Nkx3.1 antibody [EPR16653] ab196020

リコンビナント **RabMAb**

3 References **画像数 6**

製品の概要

製品名	Anti-Nkx3.1 antibody [EPR16653]
製品の詳細	Rabbit monoclonal [EPR16653] to Nkx3.1
由来種	Rabbit
アプリケーション	適用あり: IHC-P, WB, mIHC
種交差性	交差種: Human
免疫原	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Human prostate lysate and LNCaP cell lysate. IHC-P: Human prostate hyperplasia tissue. mIHC: Human prostate gland tissues.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR16653
アイソタイプ	IgG

アプリケーション

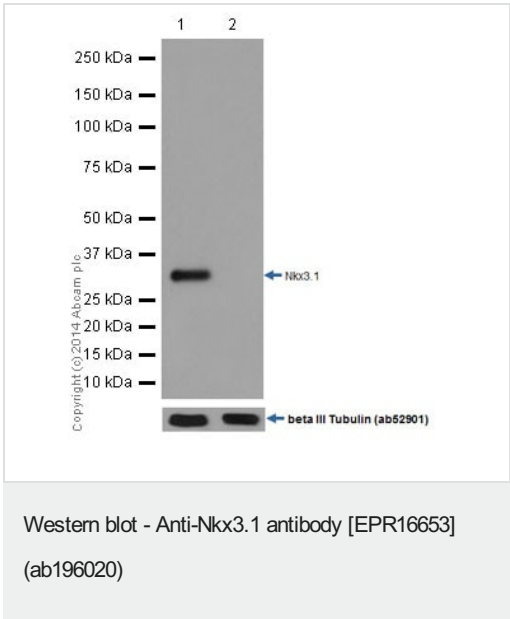
The Abpromise guarantee Abpromise保証は、 次のテスト済みアプリケーションにおけるab196020の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000. Detects a band of approximately 32 kDa (predicted molecular weight: 26 kDa).
mlHC		1/2000.

ターゲット情報

機能	Transcription factor, which binds preferentially the consensus sequence 5'-TAAGT[AG]-3' and can behave as a transcriptional repressor. Play an important role in normal prostate development, regulating proliferation of glandular epithelium and in the formation of ducts in prostate. Act as a tumor suppressor controlling prostate carcinogenesis, as shown by the ability to inhibit proliferation and invasion activities of PC-3 prostate cancer cells.
組織特異性	Highly expressed in the prostate and, at a lower level, in the testis.
配列類似性	Belongs to the NK-3 homeobox family. Contains 1 homeobox DNA-binding domain.
翻訳後修飾	Ubiquitinated by TOPORS; monoubiquitinated at several residues and also polyubiquitinated on single residues.
細胞内局在	Nucleus.

画像



All lanes : Anti-Nkx3.1 antibody [EPR16653] (ab196020) at 1/1000 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 : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

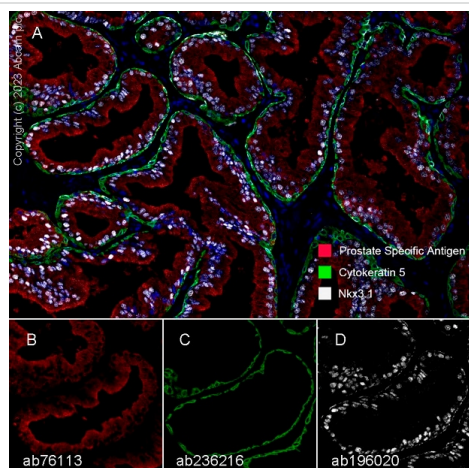
Predicted band size: 26 kDa

Observed band size: 32 kDa

Exposure time: 3 minutes

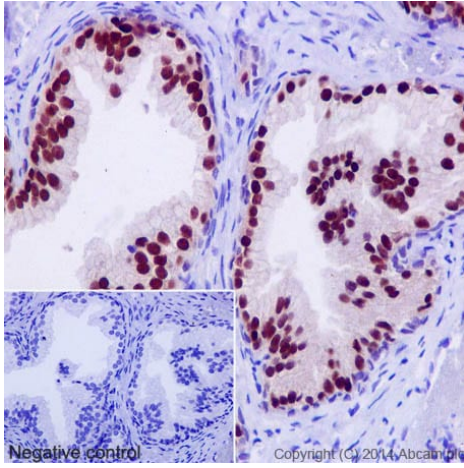
Blocking/Dilution buffer: 5% NFDM/TBST.

Lane 2, PC-3 (Human prostate cancer cell line) is acting as a negative control for Nkx3.1. The 32kDa band may represent the glycosylated form.



Multiplex immunohistochemistry - Anti-Nkx3.1 antibody [EPR16653] (ab196020)

Fluorescence multiplex immunohistochemical analysis of human prostate gland tissue (formalin/PFA-fixed paraffin-embedded section). Panel A: merged staining of anti-Prostate Specific Antigen (**ab76113**, red; Opal™690), anti-Cytokeratin 5 (**ab236216**, green; Opal™520) and anti-Nkx3.1 (ab196020, gray; Opal™570) on human prostate gland tissue. Panel B: anti-Prostate Specific Antigen stained on cytoplasm of luminal cells. Panel C: anti-Cytokeratin 5 stained on basal cells. Panel D: anti-p63 stained on nucleus of luminal cells. Opal Polymer HRP Ms + Rb was used as a secondary antibody. The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. The section was incubated in three rounds of staining: in the order of **ab76113** (1/2000), **ab236216** (1/400) and ab196020 (1/2000) for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. Each round was followed by a separate fluorescent tyramide signal amplification system. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) was used for 20 mins. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Leica SP8 confocal microscope.

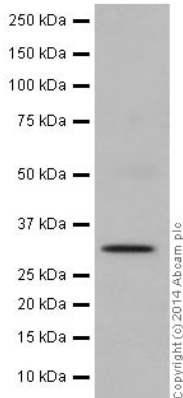


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nkx3.1 antibody [EPR16653] (ab196020)

Immunohistochemical analysis of paraffin-embedded Human prostate hyperplasia tissue labeling Nkx3.1 with ab196020 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution. Nuclear staining on Human prostate hyperplasia tissue is observed. Counter stained with Hematoxylin.

Negative 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-Nkx3.1 antibody [EPR16653] (ab196020)

Anti-Nkx3.1 antibody [EPR16653] (ab196020) at 1/1000 dilution + Human prostate lysate at 10 µg

Secondary

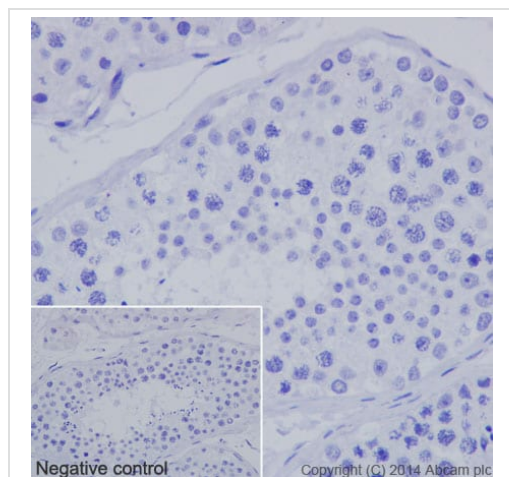
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 26 kDa

Observed band size: 32 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.







Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nkx3.1 antibody [EPR16653] (ab196020)

Immunohistochemical analysis of paraffin-embedded Human testis tissue labeling Nkx3.1 with ab196020 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution. Human testis tissue acting as a negative control for Nkx3.1. Counter stained with Hematoxylin.

Negative 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.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

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