abcam

Product datasheet

Anti-Prostate Specific Antigen antibody [EP1588Y] ab76113

リコンビナント RabMAb

11 References 画像数 8

製品の概要

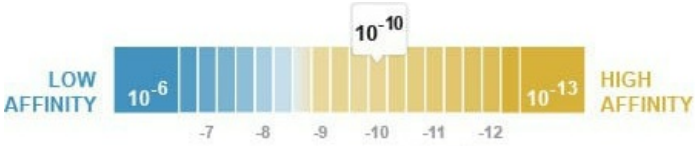
製品名	Anti-Prostate Specific Antigen antibody [EP1588Y]
製品の詳細	Rabbit monoclonal [EP1588Y] to Prostate Specific Antigen
由来種	Rabbit
特異性	The antibody provided good results in western blot when tested in human prostate lysate. Unfortunately, when 22RV1 cell lysate was used no band was detected and inconsistent results were obtained with LNCaP cell lysate (where different lots of cell lysate were used for the test). Please contact our Scientific Support if you have any feedback and/or questions.
アプリケーション	**適用あり:** mIHC, WB, IHC-P
種交差性	**交差種:** Human
免疫原	Synthetic peptide within Human Prostate Specific Antigen aa 200-300 (C terminal). The exact sequence is proprietary. Database link: **P07288**
ポジティブ・コントロール	WB: LNCaP (Human prostate carcinoma epithelial cell) whole cell lysate and LNCaP (Human prostate carcinoma epithelial cell) treated with 100nM DHT for 2 days whole cell lysate IHC-P: Human prostate cancer tissue. mIHC: Human prostate gland tissues.
特記事項	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**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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.

解離定数（K_D 値） $K_D = 5.04 \times 10^{-10}$ M



Learn more about K_D

バッファー pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

精製度 Protein A purified

ポリ/モノ モノクローナル

クローン名 EP1588Y

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ab76113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
mIHC		1/2000.
WB		1/1000. Detects a band of approximately 34 kDa (predicted molecular weight: 29 kDa). **For unpurified use at 1/10,000 - 1/50,000**
IHC-P		1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**. **For unpurified use at 1/100 - 1/250**

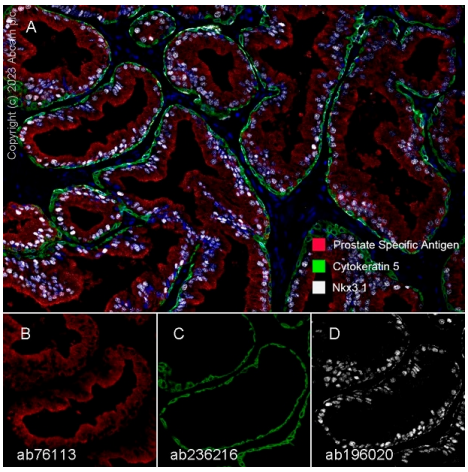
ターゲット情報

機能 Hydrolyzes semenogelin-1 thus leading to the liquefaction of the seminal coagulum.

配列類似性 Belongs to the peptidase S1 family. Kallikrein subfamily.
Contains 1 peptidase S1 domain.

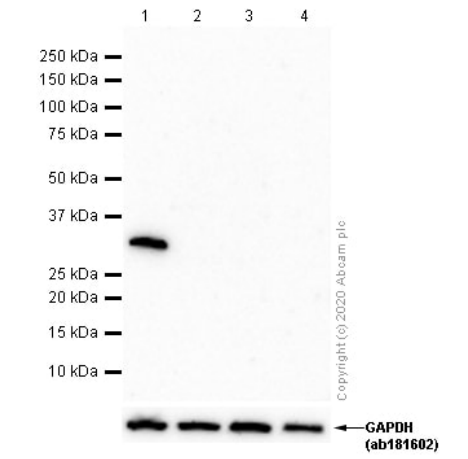
細胞内局在 Secreted.

画像



Multiplex immunohistochemistry - Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113)

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.



Western blot - Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113)

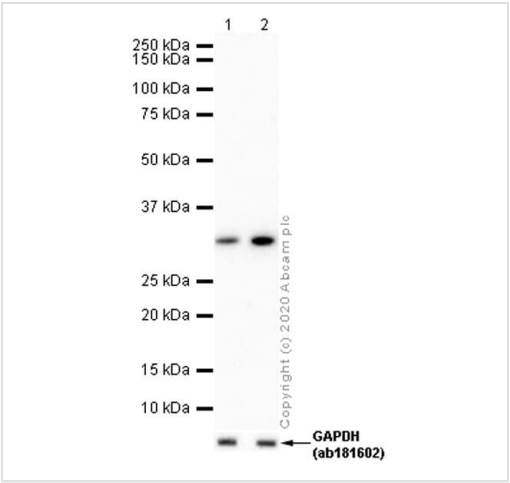
All lanes : Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113) at 1/1000 dilution ((Purified))

Lane 1 : LNCaP (Human prostate carcinoma epithelial cell) whole cell lysate at 15 µg
Lane 2 : PC-3 (Human prostate adenocarcinoma epithelial cell) whole cell lysate at 20 µg
Lane 3 : 22Rv1 (Human prostate carcinoma epithelial cell) whole cell lysate at 20 µg
Lane 4 : DU 145 (Human prostate carcinoma epithelial cell) whole cell lysate at 20 µg

Secondary
Lanes 1-3 : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 29 kDa
Observed band size: 34 kDa

The expression profile observed is consistent with what has been described in the literatures (PMID: 24906821, 17620434 and 25076860).



Western blot - Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113)

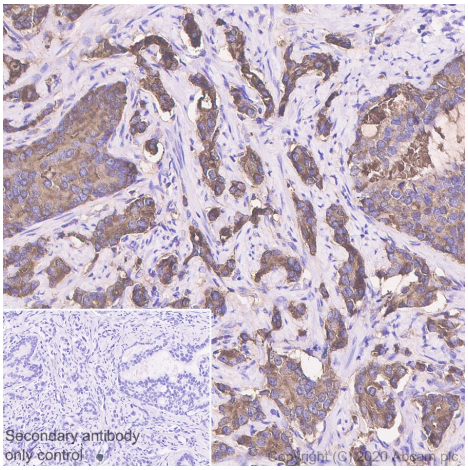
All lanes : Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113) at 1/1000 dilution

Lane 1 : LNCaP (Human prostate carcinoma epithelial cell) whole cell lysate
Lane 2 : LNCaP (Human prostate carcinoma epithelial cell) treated with 100nM DHT for 2 days whole cell lysate

Lysates/proteins at 15 µg per lane.

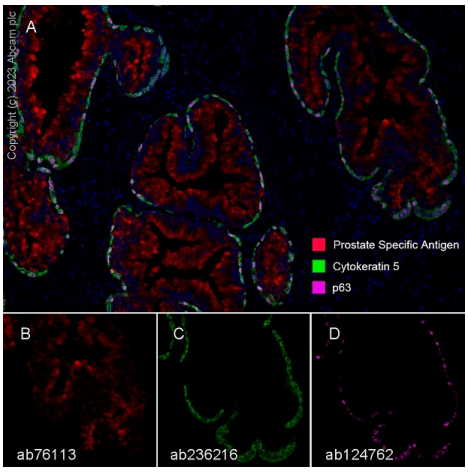
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 29 kDa



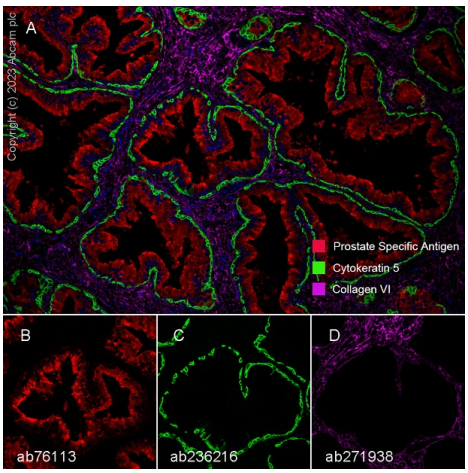
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human prostate cancer tissue sections labeling Prostate Specific Antigen with purified ab76113 at 1/1000 dilution (0.51 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Multiplex immunohistochemistry - Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113)

Fluorescence multiplex immunohistochemical analysis of human prostate gland tissue (formalin/PFA-fixed paraffin-embedded section). Panel A: merged staining of anti-p63 (**ab124762**, magenta; Opal™690), anti-Cytokeratin 5 (**ab236216**, green; Opal™520) and anti-Prostate Specific Antigen (ab76113, red; Opal™570) on human prostate gland tissue. Panel B: anti-Prostate Specific Antigen stained on luminal cells. Panel C: anti-Cytokeratin 5 stained on cytoplasm of basal cells. Panel D: anti-p63 stained on nucleus of basal 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 **ab124762** (1/5000), **ab236216** (1/400), and ab76113 (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.



Multiplex immunohistochemistry - Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113)

Fluorescence multiplex immunohistochemical analysis of human prostate gland tissue (formalin/PFA-fixed paraffin-embedded section). Panel A: merged staining of anti-Collagen VI (**ab271938**, magenta; Opal™690), anti-Cytokeratin 5 (**ab236216**, green; Opal™520) and anti-Prostate Specific Antigen (ab76113, red; Opal™570) on human prostate gland tissue. Panel B: anti-Prostate Specific Antigen stained on luminal cells. Panel C: anti-Cytokeratin 5 stained on basal cells. Panel D: anti-Collagen VI stained on stroma. 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 **ab271938** (1/500), **ab236216** (1/400), and ab76113 (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

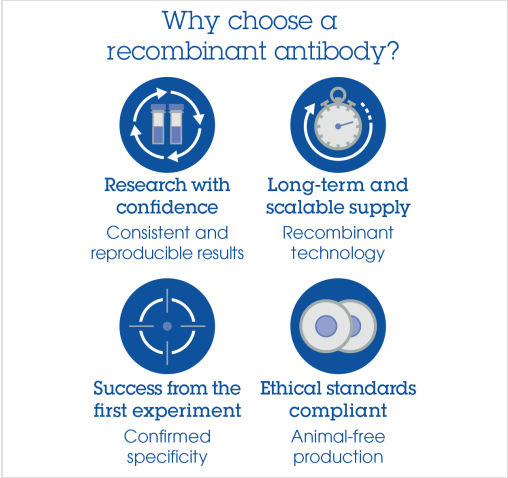
retrieval solution 2) was used for 20 mins. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Leica SP8 confocal microscope.

OI-RD Scanning - Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D



Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113)

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