Product datasheet

Anti-Androgen Receptor (AR-V7 specific) antibody [EPR15656]  
ab198394

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製品の概要

製品名  Anti-Androgen Receptor (AR-V7 specific) antibody [EPR15656]
製品の詳細  Rabbit monoclonal [EPR15656] to Androgen Receptor (AR-V7 specific)
由来種  Rabbit
アプリケーション  適用あり: IHC-P, WB
適用なし: ICC/IF
種交差性  交差種: Human
免疫原  Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human Androgen Receptor(AR-V7 specific) aa 600 to the C-terminus. The exact sequence is proprietary.
Database link: C0JKD3
ポジティブ・コントロール  WB: 22Rv1 whole cell lysate. IHC-P: Human prostate cancer tissue, human breast tumor.
特記事項  Note that for IHC it is recommended to use high pH (9.0) antigen retrieval buffer and a high sensitivity detection system, such as our Rabbit Specific IHC polymer detection kit HRP/DAB (ab209101).
For Androgen receptor variant 5,6,7es (ARv567es) specific RabMAb product - see ab200827.
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.
This product is a recombinant rabbit monoclonal antibody.

製品の特性

製品の状態  Liquid
バッファー  Preservative: 0.01% Sodium azide
 Constituents: 59% PBS, 40% Glycerol, 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
EPR15656
アイソタイプ
IgG

アプリケーション

Our Abpromise guarantee covers the use of ab198394 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<td>IHC-P</td>
<td>1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.</td>
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<td>WB</td>
<td>1/1000. Detects a band of approximately 80 kDa (predicted molecular weight: 68 kDa). Can be blocked with Human Androgen Receptor (AR-V7 specific) peptide (ab223099). We recommend to use 1% SDS Hot lysis prepare method.</td>
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追加情報
Is unsuitable for ICC/IF.

ターゲット情報

関連性
Belongs to the nuclear hormone receptor family. Contains nuclear receptor DNA-binding domain. Steroid hormone receptors are ligand-activated transcription factors that regulate eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Transcription factor activity is modulated by bound coactivator and corepressor proteins. This target is a splice variant of Androgen receptor (UniProt P10275) lacking the C-terminal androgen binding site.

細胞内局在
Nuclear

画像

Detection of AR-V7 protein by IHC in 3 breast tumors with high levels of AR-V7 mRNA expression (left). Positive staining was not detected in specimens that do not express AR-V7 mRNA (a representative is shown on the right). Inset images of higher magnification demonstrate strong nuclear staining. Refer to PMID 26554309.

Image from Hickey et al., Oncotarget, 6(42): 44728–44744. Fig 2 (Panel D); doi: https://doi.org/10.18632/oncotarget.6296
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All lanes: Anti-Androgen Receptor (AR-V7 specific) antibody [EPR15656] (ab198394) at 1/1000 dilution

Lane 1: T-47D (Human ductal breast epithelial tumor cell line) whole cell lysate at 10 µg
Lane 2: PC-3 (Human prostate cancer cell line) whole cell lysate at 10 µg
Lane 3: LNCaP (Human prostate cancer cell line) whole cell lysate at 20 µg
Lane 4: Human fetal liver lysate at 10 µg
Lane 5: Human prostate lysate at 10 µg
Lane 6: 22Rv1 (Human prostate carcinoma cell line) whole cell lysate at 10 µg

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

Predicted band size: 68 kDa
Observed band size: 80 kDa

why is the actual band size different from the predicted?

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.
Immunohistochemical analysis of paraffin-embedded Human prostate cancer tissue labeling Androgen Receptor (AR-V7) with ab198394 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) secondary antibody at 1/500 dilution. Counterstained 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.

Nucleus staining on cancer cells of Human prostate cancer (case#: F123132) is observed.

Cancer Res. 2014 Apr 15;74(8):2270-82. PMID:24556717
Cancer Res. 2009 Jan 1;69(1):16-22. PMID:19117982

**All lanes**: Anti-Androgen Receptor (AR-V7 specific) antibody [EPR15656] (ab198394) at 1/1000 dilution (Purified)

**Lane 1**: 22Rv1 (Human prostate carcinoma epithelial cell) whole cell lysates prepared in 1%SDS Hot lysis method with 5% NFDM/TBST

**Lane 2**: 22Rv1 (Human prostate carcinoma epithelial cell) whole cell lysates prepared in RIPA lysis method with 5% NFDM/TBST

Lysates/proteins at 15 µg per lane.

**Secondary**

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

**Predicted band size**: 68 kDa

**Observed band size**: 80 kDa why is the actual band size different from the predicted?

**Exposure time**: 3 minutes

This antibody works better in 1%SDS Hot Lysates in WB. For Lysate preparation protocol, please refer to the protocol [here](downloadable copy).
Immunohistochemical analysis of paraffin-embedded Human prostate cancer tissue labeling Androgen Receptor(AR-V7) with ab198394 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) secondary antibody at 1/500 dilution. Counterstained with Hematoxylin.

Negative on cancer cells of Human prostate cancer (case#:F11194)

Cancer Res. 2014 Apr 15;74(8):2270-82. PMID:24556717
Cancer Res. 2009 Jan 1;69(1):16-22. PMID:19117982
Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling Androgen Receptor (AR-V7) with ab198394 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) secondary antibody at 1/500 dilution. Counterstained with Hematoxylin.

Negative staining on normal Human liver tissue.

Cancer Res. 2014 Apr 15;74(8):2270-82. PMID:24556717
Cancer Res. 2009 Jan 1;69(1):16-22. PMID:19117982

Immunohistochemical analysis of paraffin-embedded Human hepatocellular carcinoma tissue labeling AR-V7 with ab198394 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) secondary antibody at 1/500 dilution. Counterstained with Hematoxylin.

Negative staining on Human hepatocellular carcinoma.

Cancer Res. 2014 Apr 15;74(8):2270-82. PMID:24556717
Cancer Res. 2009 Jan 1;69(1):16-22. PMID:19117982

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