

Product datasheet

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

Recombinant RabMAb

★★★★★ [4 Abreviews](#) [43 References](#) [9 Images](#)

Overview

Product name	Anti-Androgen Receptor (AR-V7 specific) antibody [EPR15656]
Description	Rabbit monoclonal [EPR15656] to Androgen Receptor (AR-V7 specific)
Host species	Rabbit
Specificity	This target is a splice variant of AR lacking the C-terminal androgen binding site.
Tested applications	Suitable for: IHC-P, WB Unsuitable for: ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. (Peptide available as ab223099)
Positive control	WB: 22Rv1 whole cell lysate. IHC-P: Human prostate cancer and breast tumor tissue.
General notes	<p>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).</p> <p>For Androgen receptor variant 5,6,7es (ARv567es) specific RabMAb product - see ab200827.</p> <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>

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: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR15656
Isotype	IgG

Applications

The Abpromise guarantee 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.

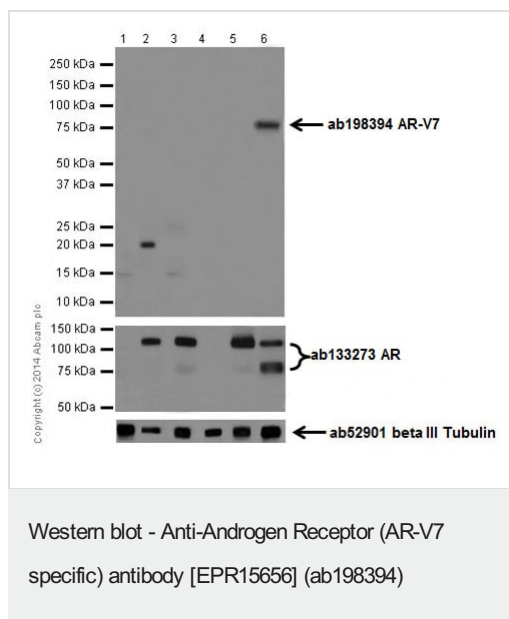
Application	Abreviews	Notes
IHC-P		1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB	★★★★★ (1)	1/1000. Detects a band of approximately 80 kDa (predicted molecular weight: 68 kDa). Can be blocked with Human Androgen Receptor (AR-V7 specific) peptide (ab223099) . We recommend to use 1% SDS Hot lysis prepare method.

Application notes Is unsuitable for ICC/IF.

Target

Relevance	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.
Cellular localization	Nuclear

Images



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 μ g

Lane 2 : PC-3 (Human prostate cancer cell line) whole cell lysate at 10 μ g

Lane 3 : LNCaP (Human prostate cancer cell line) whole cell lysate at 20 μ g

Lane 4 : Human fetal liver lysate at 10 μ g

Lane 5 : Human prostate lysate at 10 μ g

Lane 6 : 22Rv1 (Human prostate carcinoma cell line) whole cell lysate at 10 μ g

Secondary

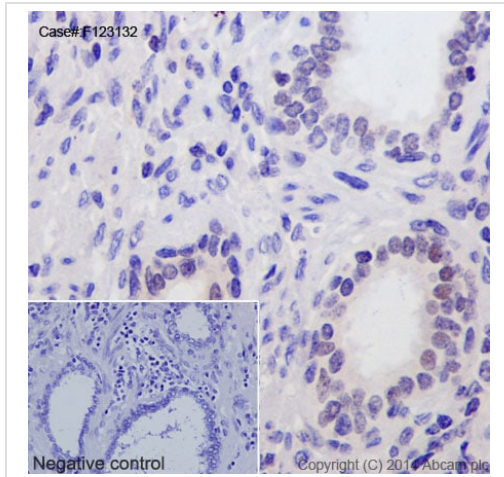
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 68 kDa

Observed band size: 80 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor (AR-V7 specific) antibody [EPR15656] (ab198394)

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.

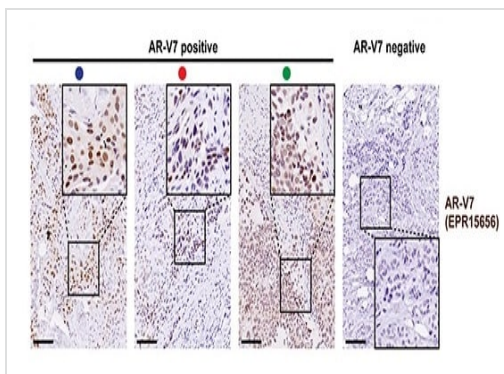
Nucleus staining on cancer cells of human prostate cancer (case#:F123132) is observed.

Cancer Res. 2014 Apr 15;74(8):2270-82. PMID:24556717

Cancer Res. 2009 Jan 1;69(1):16-22. PMID:19117982

PLoS One. 2011;6(11):e27970. PMID:22114732

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



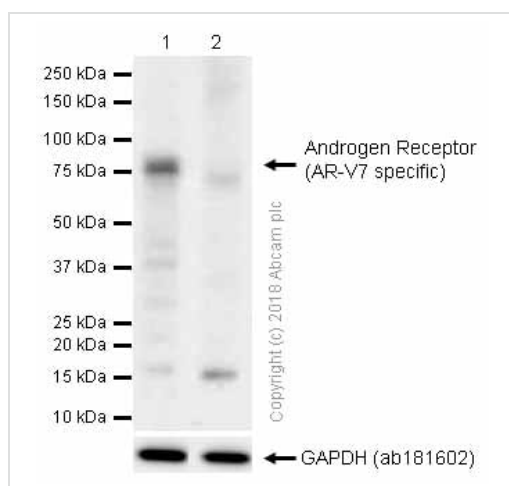
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor (AR-V7 specific) antibody [EPR15656] (ab198394)

Image from Hickey et al., Oncotarget, 6(42): 44728–44744. Fig 2 (Panel D).; doi: <https://doi.org/10.18632/oncotarget.6296>. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/3.0/>.

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

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

Lane 2 : 22Rv1 (Human prostate carcinoma epithelial cell) whole cell lysates prepared in RIPA lysis method

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)

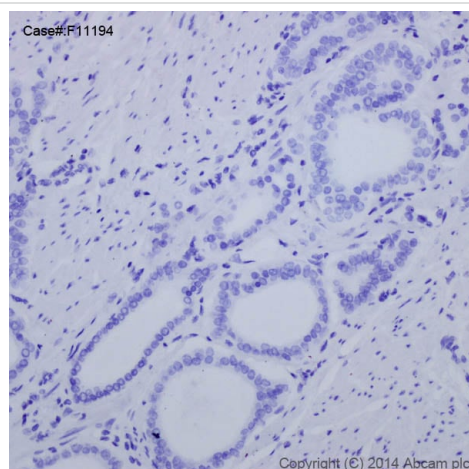
Predicted band size: 68 kDa

Observed band size: 80 kDa

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 \(downloadable copy\)](#).

Blocking/Dilution buffer: 5% NFDm/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor (AR-V7 specific) antibody [EPR15656] (ab198394)

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.

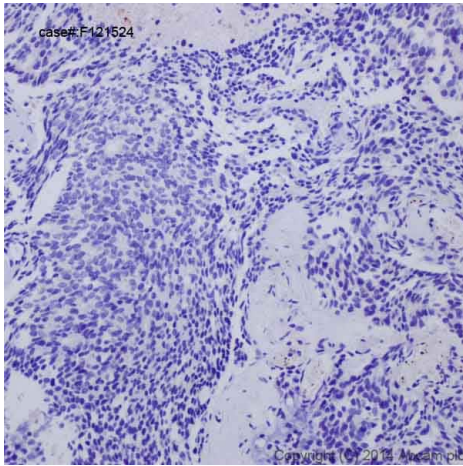
Negative on cancer cells of human prostate cancer (case#:F11194)

Cancer Res. 2014 Apr 15;74(8):2270-82. PMID:24556717

Cancer Res. 2009 Jan 1;69(1):16-22. PMID:19117982

PLoS One. 2011;6(11):e27970. PMID:22114732

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

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.

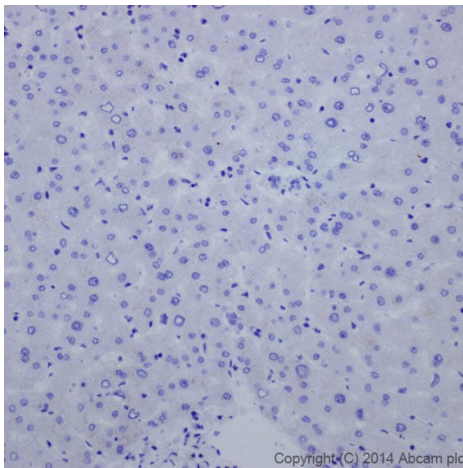
Negative on cancer cells of human prostate cancer (case#:F121524)

Cancer Res. 2014 Apr 15;74(8):2270-82. PMID:24556717

Cancer Res. 2009 Jan 1;69(1):16-22. PMID:19117982

PLoS One. 2011;6(11):e27970. PMID:22114732

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

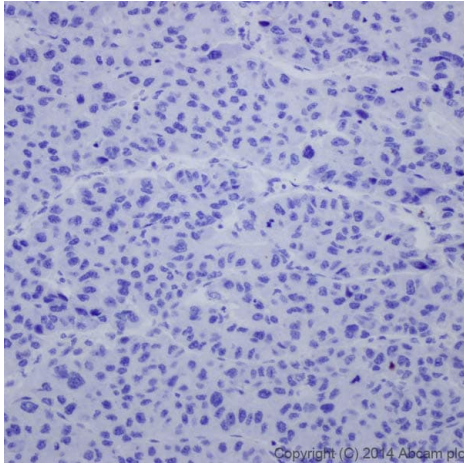
Immunohistochemical analysis of paraffin-embedded human liver tissue labeling Androgen Receptor(AR-V7) with ab198394 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution. Counterstained with hematoxylin.

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

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

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

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

Why choose a recombinant antibody?



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

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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