

Product datasheet

Anti-Aryl hydrocarbon Receptor antibody [EPR7119(N)(2)] ab190797

KO VALIDATED Recombinant RabMAB

2 References 5 Images

Overview

Product name	Anti-Aryl hydrocarbon Receptor antibody [EPR7119(N)(2)]
Description	Rabbit monoclonal [EPR7119(N)(2)] to Aryl hydrocarbon Receptor
Host species	Rabbit
Tested applications	Suitable for: ICC, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Wild type HAP1 whole cell lysate. PC-3, HeLa, HEK-293 and Caco-2 cell lysate. ICC/IF: HeLa cells.

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: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR7119(N)(2)
Isotype	IgG

Applications

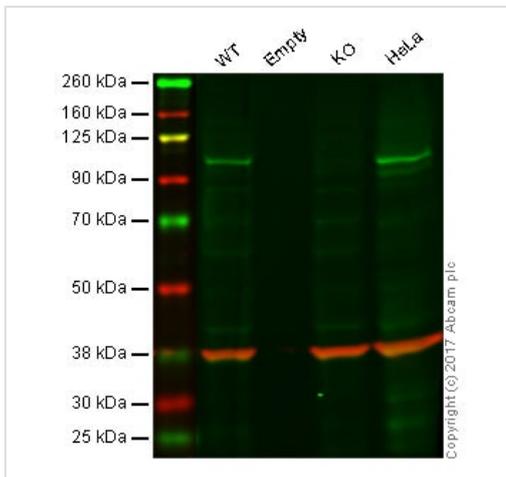
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab190797 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC		1/250.
WB		1/1000 - 1/2000. Detects a band of approximately 105 kDa (predicted molecular weight: 96 kDa).

Target

Function	Ligand-activated transcriptional activator. Binds to the XRE promoter region of genes it activates. Activates the expression of multiple phase I and II xenobiotic chemical metabolizing enzyme genes (such as the CYP1A1 gene). Mediates biochemical and toxic effects of halogenated aromatic hydrocarbons. Involved in cell-cycle regulation. Likely to play an important role in the development and maturation of many tissues.
Tissue specificity	Expressed in all tissues tested including blood, brain, heart, kidney, liver, lung, pancreas and skeletal muscle.
Sequence similarities	Contains 1 basic helix-loop-helix (bHLH) domain. Contains 1 PAC (PAS-associated C-terminal) domain. Contains 2 PAS (PER-ARNT-SIM) domains.
Cellular localization	Cytoplasm. Nucleus. Initially cytoplasmic; upon binding with ligand and interaction with a HSP90, it translocates to the nucleus.

Images



Western blot - Anti-Aryl hydrocarbon Receptor antibody [EPR7119(N)(2)] (ab190797)

Lane 1: Wild type HAP1 whole cell lysate (40 µg)

Lane 2: Empty lane

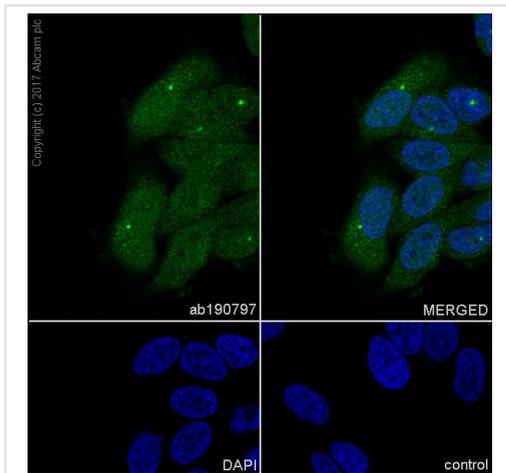
Lane 3: Aryl hydrocarbon Receptor (KO) whole cell lysate (40 µg)

Lane 4: HeLa whole cell lysate (40 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab190797 observed at 96 kDa. Red - loading control, ab8245, observed at 37 kDa.

ab190797 was shown to specifically react with Aryl hydrocarbon Receptor when Aryl hydrocarbon Receptor knockout samples were used. Wild-type and Aryl hydrocarbon Receptor knockout samples were subjected to SDS-PAGE. ab190797 and ab8245 (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/1,000 dilution and 1/10,000 dilution respectively.

Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ab216773 and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ab216776 secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.

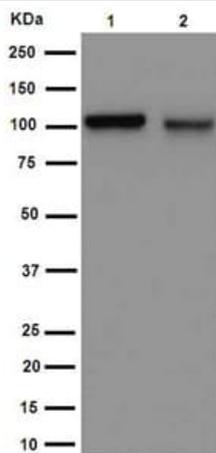


Immunocytochemistry - Anti-Aryl hydrocarbon Receptor antibody [EPR7119(N)(2)] (ab190797)

Immunofluorescent analysis of 4% paraformaldehyde fixed HeLa (Human epithelial cell line from cervix adenocarcinoma) cells showing both nuclear and cytoplasmic staining of Aryl hydrocarbon Receptor with ab190797 at 1/250 dilution. Goat anti rabbit IgG (Alexa Fluor®488)(ab150077) was used as a secondary antibody at 1/1000 dilution.

Fixed with 4% Paraformaldehyde and permeabilised with 0.1% TritonX-100.

Counterstained with DAPI (blue). **Negative controls** used PBS instead of ab190797, then add ab150077 as the secondary antibody.



Western blot - Anti-Aryl hydrocarbon Receptor antibody [EPR7119(N)(2)] (ab190797)

All lanes : Anti-Aryl hydrocarbon Receptor antibody [EPR7119(N)(2)] (ab190797) at 1/5000 dilution

Lane 1 : HEK-293 (Human epithelial cell line from embryonic kidney) cell lysate

Lane 2 : Caco-2 (Human colorectal adenocarcinoma cell line) cell lysate

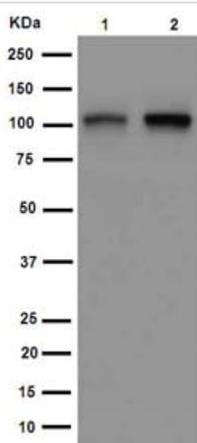
Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 96 kDa

Observed band size: 105 kDa



Western blot - Anti-Aryl hydrocarbon Receptor antibody [EPR7119(N)(2)] (ab190797)

All lanes : Anti-Aryl hydrocarbon Receptor antibody [EPR7119(N)(2)] (ab190797) at 1/1000 dilution

Lane 1 : PC-3 (Human prostate adenocarcinoma cell line) cell lysate

Lane 2 : HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 96 kDa

Observed band size: 105 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Aryl hydrocarbon Receptor antibody
[EPR7119(N)(2)] (ab190797)

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

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