

Anti-Aryl hydrocarbon Receptor antibody [EPR7119(N)(2)] - BSA and Azide free ab232331

KO VALIDATED

Recombinant

RabMAb

3 Images

Overview

Product name	Anti-Aryl hydrocarbon Receptor antibody [EPR7119(N)(2)] - BSA and Azide free
Description	Rabbit monoclonal [EPR7119(N)(2)] to Aryl hydrocarbon Receptor - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, 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; HeLa whole cell lysate.
General notes	<p>ab232331 is the carrier-free version of ab190797.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7119(N)(2)
Isotype	IgG

Applications

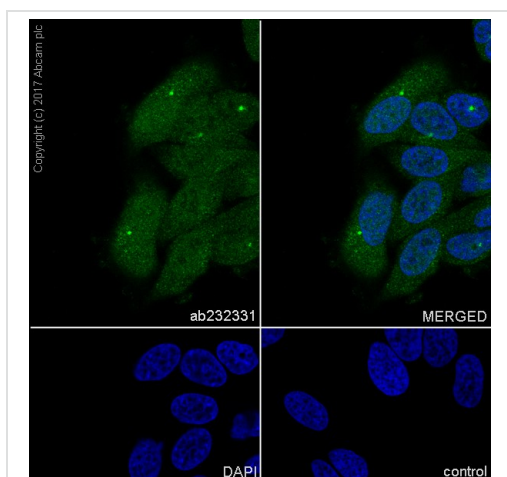
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab232331 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. 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

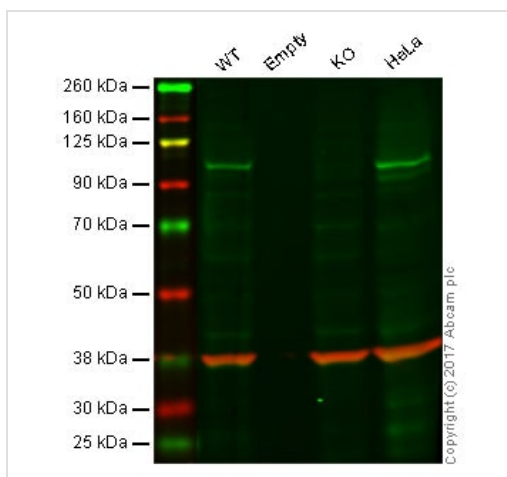


Immunocytochemistry/ Immunofluorescence - Anti-Aryl hydrocarbon Receptor antibody [EPR7119(N)(2)] - BSA and Azide free (ab232331)

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)] - BSA and Azide free (ab232331)

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 1000 dilution and 1/10000 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 1/10000 dilution for 1 hour at room temperature before imaging.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab190797**).

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)] - BSA and Azide free (ab232331)

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

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