

Anti-Beta Arrestin 2 + Beta Arrestin 1 antibody [EPR22073] α b206972

Recombinant RabMAb

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Overview

Product name	Anti-Beta Arrestin 2 + Beta Arrestin 1 antibody [EPR22073]
Description	Rabbit monoclonal [EPR22073] to beta Arrestin 1+Beta Arrestin 2
Host species	Rabbit
Specificity	The immunogen used for this product shares 86% homology with Beta Arrestin 1.
Tested applications	Suitable for: Flow Cyt (Intra), WB, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK-293T, HepG2, Jurkat and HeLa whole cell lysates; Human lung and brain lysates; Mouse and rat brain lysates. Flow Cyt (intra): HeLa cells. IP: HEK-293T whole cell lysate.
General notes	<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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR22073

Isotype IgG

Applications

The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab206972 in the following tested applications.

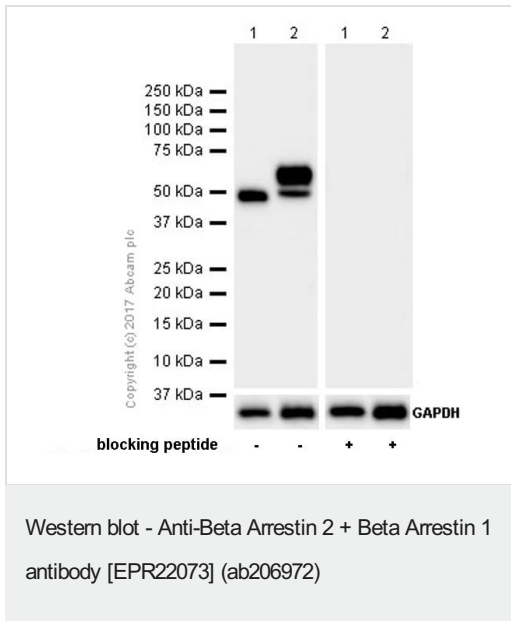
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/600.
WB		1/1000. Detects a band of approximately 46-55 kDa (predicted molecular weight: 46 kDa).
IP		1/30.

Target

Cellular localization beta Arrestin 1: Cytoplasm. Nucleus. Cell membrane. Membrane > clathrin-coated pit. Cell projection > pseudopodium. Cytoplasmic vesicle. Translocates to the plasma membrane and colocalizes with antagonist-stimulated GPCRs. The monomeric form is predominantly located in the nucleus. The oligomeric form is located in the cytoplasm. Translocates to the nucleus upon stimulation of OPRD1. Beta Arrestin 2: Cytoplasm. Nucleus. Cell membrane. Membrane > clathrin-coated pit. Cytoplasmic vesicle. Translocates to the plasma membrane and colocalizes with antagonist-stimulated GPCRs.

Images



All lanes : Anti-Beta Arrestin 2 + Beta Arrestin 1 antibody
[EPR22073] (ab206972) at 1/1000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lane 2 : Mouse brain lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

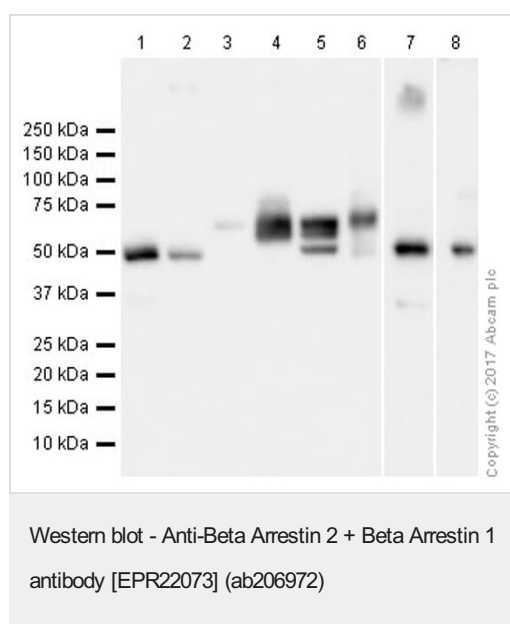
Predicted band size: 46 kDa

Observed band size: 46-55 kDa

Exposure time: 15 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

The multiple bands in the brain tissue lysate are different isoform of β -Arrestin 2. All the immuno- active bands can be totally blocked by pre-incubation of antigen peptide.



All lanes : Anti-Beta Arrestin 2 + Beta Arrestin 1 antibody [EPR22073] (ab206972) at 1/1000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lane 2 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate

Lane 3 : Human lung lysate

Lane 4 : Human brain lysate

Lane 5 : Mouse brain lysate

Lane 6 : Rat brain lysate

Lane 7 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate

Lane 8 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 20 μ g per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/200000 dilution

Predicted band size: 46 kDa

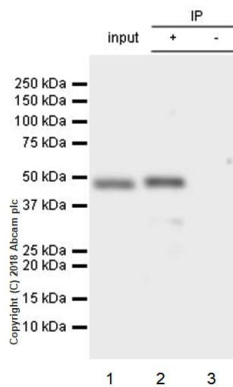
Observed band size: 46-55 kDa

Exposure time : Lane 1 - Lane 6: 10 seconds, Lane 7: 48 seconds, Lane 8: 70 seconds.

Blocking/Dilution buffer: 5% NFDM/TBST.

The multiple bands in tissue lysates are different isoforms of β -Arrestin 2 based on UniProt annotation. The molecular profile/weight observed is consistent with what has been described in the literature (PMID:16820410, PMID:27759077,

PMID:19955404).



Immunoprecipitation - Anti-Beta Arrestin 2 + Beta Arrestin 1 antibody [EPR22073] (ab206972)

Beta Arrestin 2 was immunoprecipitated from 0.35 mg of HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate with ab206972 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab206972 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/5000 dilution.

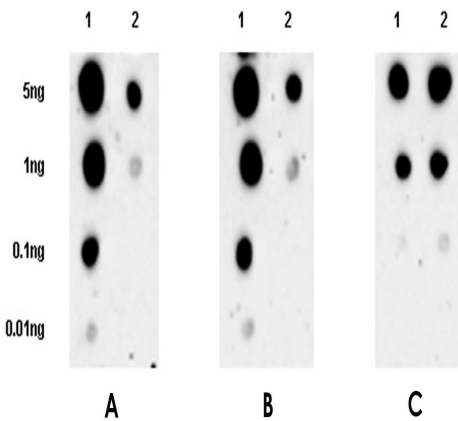
Lane 1: HEK-293T whole cell lysate 10 µg (Input).

Lane 2: ab206972 IP in HEK-293T whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab206972 in HEK-293T whole cell lysate.

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: 10 seconds.



Dot Blot - Anti-Beta Arrestin 2 + Beta Arrestin 1 antibody [EPR22073] (ab206972)

Dot blot analysis of beta Arrestin 1+Beta Arrestin 2 labelled with ab206972 at 1/1000 dilution and 1/2000 dilution using different lot numbers (A & B), and labelled with [ab213204](#) (His) at 1/1000 dilution (C).

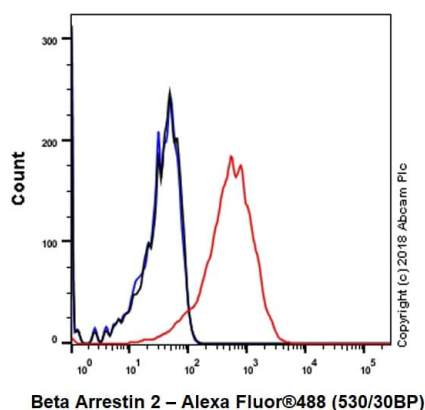
Lane 1: P8423 beta Arrestin 2 peptide.

Lane 2: P8423 beta Arrestin 1 peptide.

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution was used as secondary antibody.

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 180 seconds.



Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cell line labeling Beta Arrestin 2 with ab206972 at 1/600 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/2000 dilution was used as the secondary antibody.

Flow Cytometry (Intracellular) - Anti-Beta Arrestin 2
+ Beta Arrestin 1 antibody [EPR22073] (ab206972)

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-Beta Arrestin 2 + Beta Arrestin 1 antibody
[EPR22073] (ab206972)

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