abcam

ab109497

Anti-PBR antibody [EPR5384]

Anti-PBR antibody [EPR5384] (ab109497) is a rabbit monoclonal antibody detecting PBR in **Western Blot, Flow Cytometry (Intra), IP, IHC-P, IHC-Fr, ICC/IF**. Suitable for **Human, Mouse**.

- KO validated for confirmed specificity
- Biophysical QC for unrivalled batch-batch consistency
- Over 100 publications

Recombinant | RabMAb | KO Validated | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR5384
Purification technique	Affinity purification Protein A
Specificity	IHC results on rat tissues (such as liver and kidney) showed weak cytoplasmic and nuclear staining. However, other customer feedback suggests that this antibody works well in rat. Due to the inconclusive nature of these results, we do not currently guarantee this antibody in rat. Please contact our Scientific support team for more information.
Concentration	0.884 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Mouse
Dilution info	1/100 - 1/1000
Notes	Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

Species	Human
Dilution info	1/100 - 1/1000
Notes	Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

IP

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/10000 - 1/50000
Notes	-

Species	Human
Dilution info	1/10000 - 1/50000

Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1 µg/mL
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-Fr

Tested

Species	Mouse
Dilution info	1/250
Notes	Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/50 - 1/150

Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information TSPO

Function	Can bind protoporphyrin IX and may play a role in the transport of porphyrins and heme (By similarity). Promotes the transport of cholesterol across mitochondrial membranes and may play a role in lipid metabolism (PubMed:24814875), but its precise physiological role is controversial. It is apparently not required for steroid hormone biosynthesis. Was initially identified as peripheral-type benzodiazepine receptor; can also bind isoquinoline carboxamides (PubMed:1847678).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-PBR antibody [EPR5384] (ab109497) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunohistochemistry (IHC-Fr), Immunocytochemistry/immunofluorescence (ICC/IF) in Human, Mouse samples.

What is the molecular weight of PBR?
Anti-PBR [EPR5384] (ab109497) specifically detects a band for PBR (UniProt: P30536) at a molecular weight of 19kDa.

Trusted by the scientific community
Anti-PBR [EPR5384] (ab109497) was first used in a scientific publication in 2011 and has been cited over 100 times in peer-reviewed journals.

Reviewed by scientists
Anti-PBR [EPR5384] (ab109497) has over 10 independent reviews from customers.

Specificity confirmed
The specificity of Anti-PBR antibody [EPR5384] (ab109497) has been confirmed by Western blot testing in TSPO Knockout HAP1 cell line, ab266878.

Other related products
We have a range of other formats of antibody clone [EPR5384] also available for your convenience: ab109497, Alexa Fluor® 488 - ab199779, Alexa Fluor® 647 - ab199836, PE - ab208836, Carrier free - ab213654, Alexa Fluor® 555 - ab283733, Alexa Fluor® 594 - ab303575, Alexa Fluor® 568 - ab314401

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Species reactivity
Rat: We have preliminary internal testing data to indicate this antibody may not react with this species.
Please contact us for more information.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	PBR also known as the Peripheral Benzodiazepine Receptor is a protein predominantly found in the outer mitochondrial membrane. It has alternate names like Translocator Protein (TSPO) and the mass of this protein is approximately 18 kDa. PBR is expressed in various tissues but shows high levels in steroidogenic tissues like adrenal glands as well as in the brain heart liver and

	kidneys. The abundant presence in these tissues highlights its importance in a variety of physiological functions.
Biological function summary	PBR interacts with cholesterol for the synthesis of steroid hormones making it important for steroidogenesis. PBR is a part of the Mitochondrial Permeability Transition Pore complex (MPTP) involved in regulating the transport of molecules across the mitochondrial membrane. Through its association with the MPTP PBR plays a significant role in mitochondrial functions such as apoptosis and energy metabolism. The interaction with other molecules also includes the binding with benzodiazepines impacting processes like immune response and cell proliferation.
Pathways	PBR plays a role in the steroid biosynthesis and apoptosis pathways. It interfaces with the StAR (Steroidogenic Acute Regulatory) protein to facilitate cholesterol transport into mitochondria the initial step in steroid hormone production. PBR is also involved in pathways that regulate apoptosis and mitochondrial function linking it to different cellular processes through interactions with proteins like VDAC (Voltage-Dependent Anion Channel).
Associated diseases and disorders	PBR has relevance to conditions such as neurodegenerative diseases and cancer. PBR expression changes in disorders like Alzheimer's disease where it might reflect mitochondrial dysfunctions. It has also been associated with certain cancers where aberrant PBR activity might contribute to altered cell proliferation and apoptosis. Proteins like caspases are involved in the apoptotic pathways connected with PBR highlighting its involvement in disease processes.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

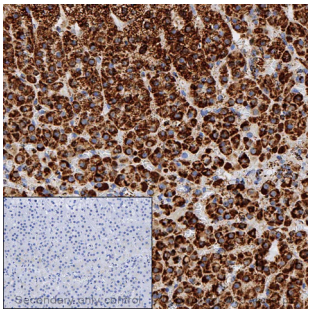
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:

21 product images



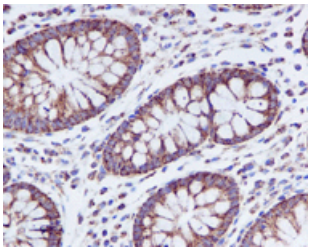
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PBR antibody [EPR5384] (ab109497)

PBR Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human adrenal gland tissue using rabbit Anti-PBR antibody

Immunohistochemical analysis of formalin fixed paraffin embedded human adrenal gland labelling PBR with ab109497 at a concentration of 0.05µg/ml. The immunostaining was performed on a Ventana DISCOVERY ULTRA (Roche Tissue Diagnostics) instrument with a OptiView DAB IHC Detection Kit. Heat mediated antigen retrieval was performed with DISCOVERY cell conditioning solution (CC1) 100°C, pH8.5 for 32mins.

ab109497 anti-PBR antibody [EPR5384] was incubated for 16mins at 37°C. Sections were counterstained with Hematoxylin II. Image inset shows absence of staining in secondary antibody only control.

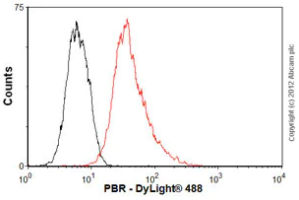
Customers are encouraged to optimise antigen retrieval conditions, antibody concentration, incubation times and temperature for best results in their own IHC assay workflow (automated and manual)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PBR antibody [EPR5384] (ab109497)

PBR Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PBR antibody

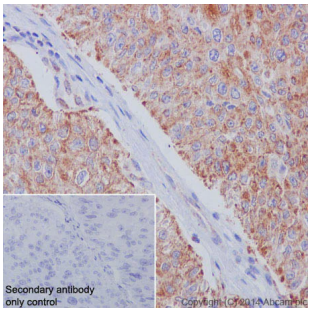
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue labelling PBR with unpurified ab109497 at a dilution of 1/100.
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-PBR antibody [EPR5384] (ab109497)

PBR Flow Cytometry (Intracellular) staining using rabbit Anti-PBR antibody

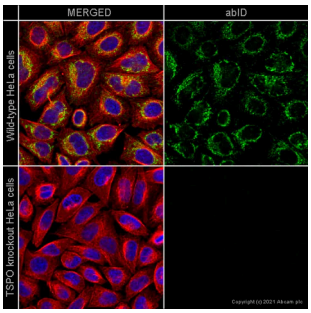
Overlay histogram showing HepG2 cells stained with unpurified ab109497 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (unpurified ab109497, 1/50 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (ab96899) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PBR antibody [EPR5384] (ab109497)

PBR Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PBR antibody

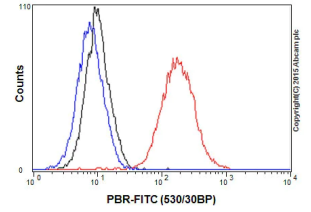
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human bladder carcinoma tissue labelling PBR with purified ab109497 at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. ab97051, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Immunocytochemistry/ Immunofluorescence - Anti-PBR antibody [EPR5384] (ab109497)

PBR Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-PBR antibody

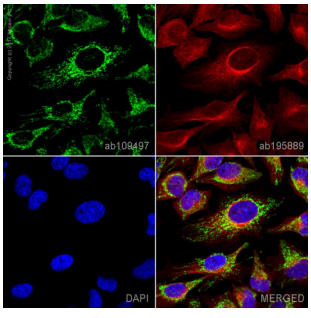
ab109497 staining PBR in wild-type HeLa cells (top panel) and TSPO knockout HeLa cells (bottom panel). The cells were fixed with 4% paraformaldehyde (10min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with ab109497 at 0.1 µg/ml and ab195884 at 2 µg/ml (shown in pseudocolour red) overnight at +4°C, followed by a further incubation at room temperature for 1h with a goat secondary antibody to Rabbit IgG (Alexa Fluor® 488) (ab150081) at 2 µg/ml (shown in green). Nuclear DNA was labelled in blue with DAPI.
Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Flow Cytometry (Intracellular) - Anti-PBR antibody [EPR5384] (ab109497)

PBR Flow Cytometry (Intracellular) staining using rabbit Anti-PBR antibody

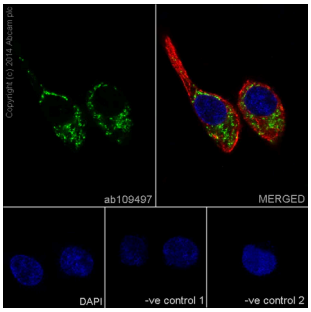
Intracellular Flow Cytometry analysis of U-87MG cells labelling PBR with purified ab109497 at 1/150 (red). Cells were fixed with 2% paraformaldehyde. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.



Immunocytochemistry/ Immunofluorescence - Anti-PBR antibody [EPR5384] (ab109497)

PBR Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-PBR antibody

ab109497 staining PBR in HeLa. The cells were fixed with 100% methanol (5min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with ab109497 at 1µg/ml and ab195889 at 1/250 dilution (shown in pseudocolour red) overnight at +4°C, followed by a further incubation at room temperature for 1h with a goat secondary antibody to Rabbit IgG (Alexa Fluor® 488) (ab150081) at 2 µg/ml (shown in green). Nuclear DNA was labelled in blue with DAPI.
Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

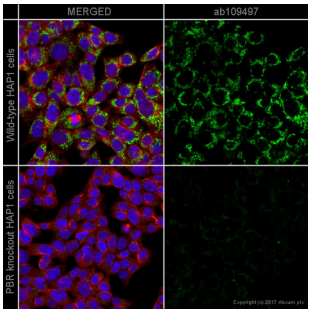


Immunocytochemistry/ Immunofluorescence - Anti-PBR antibody [EPR5384] (ab109497)

PBR Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-PBR antibody

Immunocytochemistry/Immunofluorescence analysis of U-87MG cells labelling PBR with purified ab109497 at 1/100. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. ab7291, a mouse anti-tubulin (1/1000) and ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500) were also used.
Control 1: primary antibody (1/100) and secondary antibody, ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

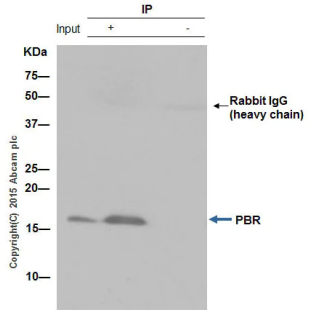
Control 2: ab7291 (1/1000) and secondary antibody, ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).



Immunocytochemistry/ Immunofluorescence - Anti-PBR antibody [EPR5384] (ab109497)

PBR Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-PBR antibody

ab109497 staining PBR in wild-type HAP1 cells (top panel) and PBR knockout HAP1 cells (bottom panel). The cells were fixed with 100% methanol (5min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with ab109497 at 1µg/ml and ab195889 at 1/250 dilution (shown in pseudocolour red) overnight at +4°C, followed by a further incubation at room temperature for 1h with a goat secondary antibody to Rabbit IgG (Alexa Fluor® 488) (ab150081) at 2 µg/ml (shown in green). Nuclear DNA was labelled in blue with DAPI.
Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Immunoprecipitation - Anti-PBR antibody [EPR5384] (ab109497)

ab109497 (purified) at 1/60 immunoprecipitating PBR in A431 whole cell lysate.
Lane 1 (input): A431 whole cell lysate (10µg)

Lane 2 (+): ab109497 + A431 whole cell lysate (10µg).

Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab109497 in A431 whole cell lysate.

For western blotting, VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/1500 dilution.

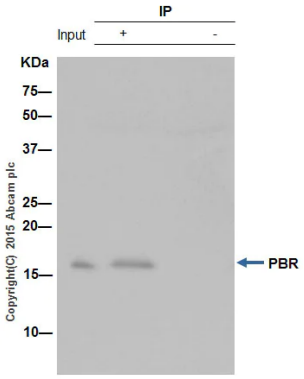
Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.

All lanes:
Immunoprecipitation - Anti-PBR antibody [EPR5384] (ab109497)

Predicted band size: 19 kDa

Observed band size: 19 kDa



Immunoprecipitation - Anti-PBR antibody [EPR5384] (ab109497)

ab109497 (purified) at 1/60 immunoprecipitating PBR in U-87MG whole cell lysate.
Lane 1 (input): U-87MG whole cell lysate (10µg)

Lane 2 (+): ab109497 + U-87MG whole cell lysate (10µg).

Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab109497 in U87-MG whole cell lysate.

For western blotting, VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/1500 dilution.

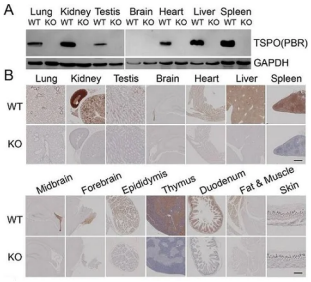
Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.

All lanes:
Immunoprecipitation - Anti-PBR antibody [EPR5384] (ab109497)

Predicted band size: 19 kDa

Observed band size: 19 kDa



Wang, H. et al PLoS One. 2016 Dec 1;11(12):e0167307. doi: 10.1371/journal.pone.0167307. eCollection 2016 Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/

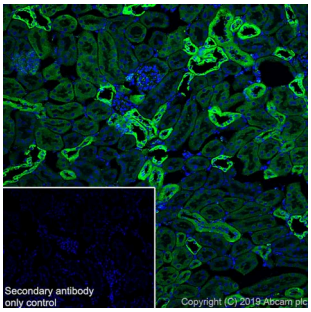
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PBR antibody [EPR5384] (ab109497)

TSPO (PBR) expression was abolished in global KO mice without pathological changes
TSPO expression in different tissues from WT and KO mice was detected by western blotting (A) and IHC (B). Scale Bars, 100µm.

4% PFA-fixed tissue sections were blocked with 5% goat serum and incubated overnight at 4°C with ab109497 at 1/1500 dilution. DAB staining.

Note: TSPO and PBR are alternative names for the same target.

(Adapted from Figure 3 of Wang et al)



Immunohistochemistry (Frozen sections) - Anti-PBR antibody [EPR5384] (ab109497)

PBR Immunohistochemistry (Frozen sections) staining using rabbit Anti-PBR antibody

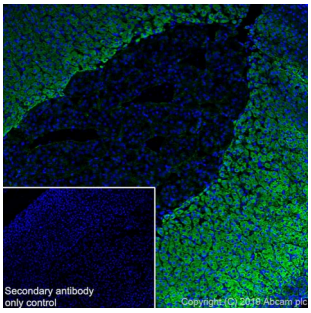
Immunohistochemistry (Frozen sections) analysis of mouse kidney tissue sections labeling PBR with Purified ab109497 at 1/250 (3.8 µg/ml).Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. DAPI was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PBR antibody [EPR5384] (ab109497)

PBR Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PBR antibody

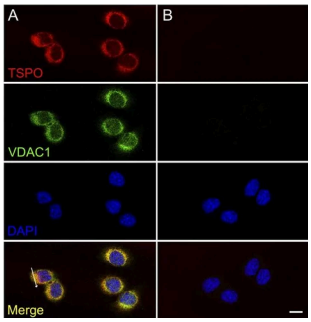
Immunohistochemistry (formalin/PFA-fixed paraffin-embedded sections) analysis of mouse hypothalamus tissue labelling PBR with ab109497 at 1/1000 dilution (1.03 µg/ml). Heat mediated antigen retrieval was performed using Tris/EDTA buffer, pH 9.0 (ab93684). A goat anti-rabbit IgG (H+L) (HRP) was used as the secondary antibody (concentration: ready to use). A secondary-antibody-only control was also performed. Counterstained with hematoxylin.
Positive staining was observed on ependymal cells and endothelial cells in mouse hypothalamus.



Immunohistochemistry (Frozen sections) - Anti-PBR antibody [EPR5384] (ab109497)

PBR Immunohistochemistry (Frozen sections) staining using rabbit Anti-PBR antibody

Immunohistochemistry (Frozen sections) analysis of mouse adrenal gland tissue sections labeling PBR with Purified ab109497 at 1/250 (3.8 µg/ml).Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. DAPI was used as a counterstain.



Morohaku, K. et al Send to PLoS One. 2013 Sep 5;8(9):e74509. doi: 10.1371/journal.pone.0074509. eCollection 2013 Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/

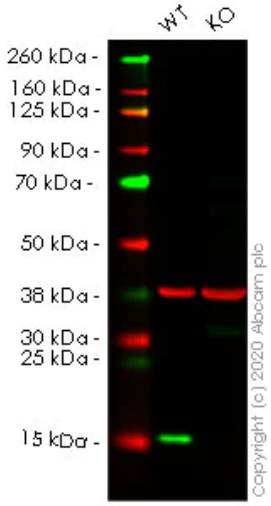
Immunocytochemistry/ Immunofluorescence - Anti-PBR antibody [EPR5384] (ab109497)

TSPO (PBR) expression is localized to the mitochondria
(A) Panel shows confocal images of TSPO (red), VDAC1 (green) and nuclear counterstain (blue) in MA-10 Leydig (mouse). cells. (B) Negative control panel. Colocalization of TSPO to the mitochondrial protein VDAC1 validates the specific localization of TSPO. Scale bar 20 µm.

Cells were fixed with 4% formaldehyde and permeabilized using 0.1% Triton X-100. Cells were then blocked using 5% normal goat serum and incubated with ab109497 at 1/200 dilution.

Note: TSPO and PBR are alternative names for the same target.

Western blot - Anti-PBR antibody [EPR5384] (ab109497)



PBR Western blot staining using rabbit Anti-PBR antibody

Lanes 1- 2: Merged signal (red and green). Green - ab109497 observed at 17 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (ab8245) observed at 37 kDa.
ab109497 was shown to react with PBR in wild-type HCT116 cells in western blot. Loss of signal was observed when knockout cell line ab266878 (knockout cell lysate ab257067) was used. Wild-type HCT116 and TSPO knockout HCT116 cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. ab109497 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye®800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye®680RD) preadsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

All lanes:
Western blot - Anti-PBR antibody [EPR5384] (ab109497) at 1/1000 dilution

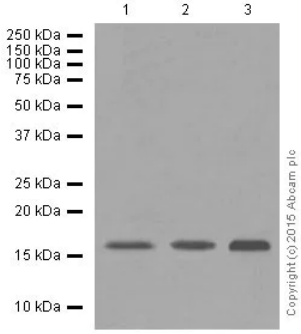
Lane 1:
Wild-type HCT116 cell lysate at 20 µg

Lane 2:
Western blot - Human TSPO (PBR) knockout HCT116 cell lysate (ab257067) at 20 µg

Performed under reducing conditions.

Predicted band size: 19 kDa

Observed band size: 17 kDa



Western blot - Anti-PBR antibody [EPR5384] (ab109497)

Blocking and dilution buffer: 5% NFDM/TBST.
All lanes:
Western blot - Anti-PBR antibody [EPR5384] (ab109497) at 1/50000 dilution

Lane 1:
U-87MG cell lysate at 20 µg

Lane 2:
HEK293 cell lysate at 20 µg

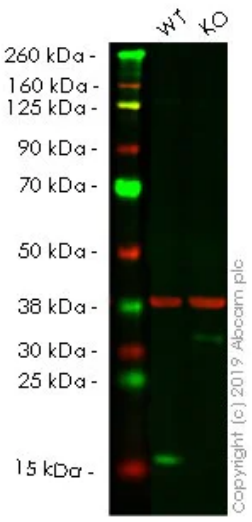
Lane 3:
A431 cell lysate at 20 µg

Secondary

All lanes:
Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/1000 dilution

Predicted band size: 19 kDa

Observed band size: 18 kDa



Western blot - Anti-PBR antibody [EPR5384] (ab109497)

PBR Western blot staining using rabbit Anti-PBR antibody

Lanes 1- 2: Merged signal (red and green). Green - ab109497 observed at 15 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (ab8245) observed at 37 kDa.
ab109497 was shown to react with PBR in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line ab264942 (knockout cell lysate ab257066) was used. Wild-type HeLa and TSPO knockout HeLa cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. ab109497 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

All lanes:
Western blot - Anti-PBR antibody [EPR5384] (ab109497) at 1/1000 dilution

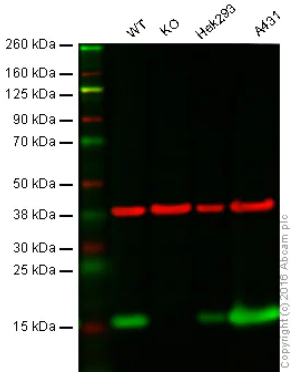
Lane 1:
Wild-type HeLa cell lysate at 20 µg

Lane 2:
Western blot - Human TSPO (PBR) knockout HeLa cell lysate (ab257066) at 20 µg

Performed under reducing conditions.

Predicted band size: 19 kDa

Observed band size: 17 kDa



Western blot - Anti-PBR antibody [EPR5384] (ab109497)

PBR Western blot staining using rabbit Anti-PBR antibody

Lanes 1 - 4: Merged signal (red and green). Green - ab109497 observed at 15 kDa. Red - loading control, ab8245, observed at 37 kDa.
ab109497 was shown to specifically react with PBR in wild type HAP1 cells. No band was observed when PBR knockout samples were used. Wild-type and PBR knockout samples were subjected to SDS-PAGE. ab109497 and ab8245 (loading control to GAPDH) were diluted at 1/10000 and 1/10000 dilution respectively and incubated overnight at 4C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.

All lanes:
Western blot - Anti-PBR antibody [EPR5384] (ab109497) at 1/10000 dilution

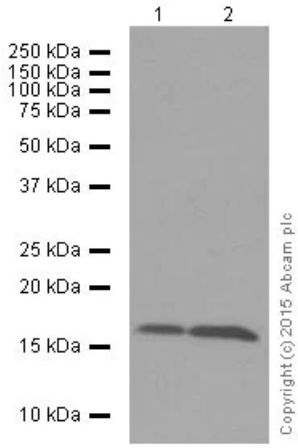
Lane 1:
Wild-type HAP1 cell lysate at 20 µg

Lane 2:
PBR knockout HAP1 cell lysate at 20 µg

Lane 3:
HEK293 cell lysate at 20 µg

Lane 4:
A431 cell lysate at 20 µg

Predicted band size: 19 kDa



Western blot - Anti-PBR antibody [EPR5384] (ab109497)

PBR Western blot staining using rabbit Anti-PBR antibody

Blocking and dilution buffer: 5% NFDM/TBST.
All lanes:
Western blot - Anti-PBR antibody [EPR5384] (ab109497) at 1/50000 dilution

Lane 1:
RAW264.7 cell lysate at 20 µg

Lane 2:
NIH/3T3 cell lysate at 20 µg

Secondary

All lanes:
Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/1000 dilution

Predicted band size: 19 kDa

Observed band size: 18 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.