Human/Mouse PBR Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2393B
Catalog Number: MAB10045

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human PBR in direct ELISAs. Detects human and mouse PBR in Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2393B
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Synthetic peptide containing human PBR Accession # P30536
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

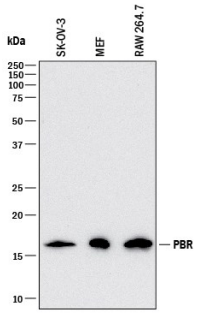
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	3-25 µg/mL	See Below
Immunohistochemistry	3-25 µg/mL	See Below

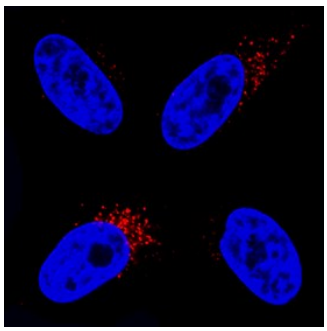
DATA

Western Blot



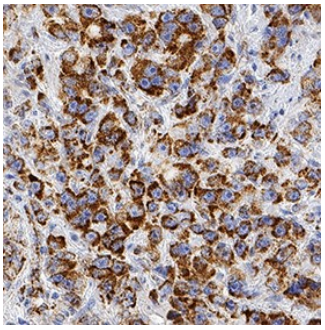
Detection of Human and Mouse PBR by Western Blot. Western blot shows lysates of SK-OV-3 human ovarian adenocarcinoma cell line, MEF mouse embryonic feeder cells, and RAW 264.7 mouse monocyte/macrophage cell line. PVDF membrane was probed with 1 µg/mL of Rabbit Anti-Human/Mouse PBR Monoclonal Antibody (Catalog # MAB10045) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for PBR at approximately 18 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



PBR in HeLa Human Cell Line. PBR was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Rabbit Anti-Human/Mouse PBR Monoclonal Antibody (Catalog # MAB10045) at 3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Immunohistochemistry



PBR in Human Prostate Cancer Tissue. PBR was detected in immersion fixed paraffin-embedded sections of human prostate cancer tissue using Rabbit Anti-Human PBR Monoclonal Antibody (Catalog # MAB10045) at 3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm (mitochondria) in cancer cells. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

PBR promotes the transport of cholesterol across mitochondrial membranes and may play a role in lipid metabolism. PBR is expressed at the highest levels under normal conditions in tissues that synthesize steroids. Aberrant expression of PBR has been linked to multiple diseases, including cancer, brain injury, neurodegeneration and ischemia-reperfusion injury.

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