

PBR Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51876

Specification

PBR Antibody - Product Information

Application	WB
Primary Accession	P30536
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32 KDa
Antigen Region	101 - 160

PBR Antibody - Additional Information

Gene ID 706

Other Names

Translocator protein, Mitochondrial benzodiazepine receptor, PKBS, Peripheral-type benzodiazepine receptor, PBR, TSPO, BZRP, MBR

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human PBR. The exact sequence is proprietary.

Dilution

WB~~ 1:1000

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

PBR Antibody - Protein Information

Name TSPO

Synonyms BZRP, MBR

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).

Cellular Location

Mitochondrion membrane; Multi-pass membrane protein

Tissue Location

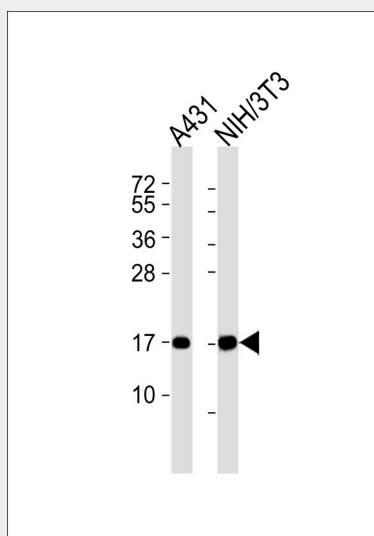
Found in many tissue types. Expressed at the highest levels under normal conditions in tissues that synthesize steroids.

PBR Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PBR Antibody - Images



All lanes : Anti-PBR Antibody at 1:1000 dilution Lane 1: A431 whole cell lysates Lane 2: NIH/3T3 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 19 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

PBR Antibody - Background

Responsible for the manifestation of peripheral-type benzodiazepine recognition sites and is most likely to comprise binding domains for benzodiazepines and isoquinoline carboxamides. May play a role in the transport of porphyrins and heme. Plays a role in the transport of cholesterol across mitochondrial membranes in steroidogenic cells (By similarity).

PBR Antibody - References

Riond J.,et al.Eur. J. Biochem. 195:305-311(1991).
Yakovlev A.G.,et al.Gene 155:201-205(1995).
Costa B.,et al.Mol. Pharmacol. 69:37-44(2006).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).