

**PBR Antibody**  
**Rabbit mAb**  
**Catalog # AP90439**

## Specification

---

### PBR Antibody - Product Information

Application	WB, IHC, FC, ICC, IP
Primary Accession	<a href="#">P30536</a>
Clonality	Monoclonal
<b>Other Names</b>	
TSPO; PBR; BZRP; IBP; MBR; PKBS; Mitochondrial benzodiazepine receptor; Peripheral benzodiazepine receptor;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	18828 Da

### PBR Antibody - Additional Information

Dilution	WB~~1:1000 IHC~~1:100~500 FC~~1:10~50 ICC~~N/A IP~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human PBR
Description	Peroxisome proliferator perfluorodecanoic acid (PFDA) inhibits the Leydig cell steroidogenesis by affecting PBR mRNA stability, thus inhibiting PBR expression, cholesterol transport into the mitochondria and subsequent steroid formation. A cytoplasmic protein, PRAX-1 (peripheral benzodiazepine receptor-associated protein 1), is found to specifically interact with PBR.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

### 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:<a href="http://www.uniprot.org/citations/24814875" target="\_blank">24814875</a>), 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:<a href="http://www.uniprot.org/citations/1847678" target="\_blank">1847678</a>).

**Cellular Location**

Mitochondrion membrane; Multi-pass membrane protein

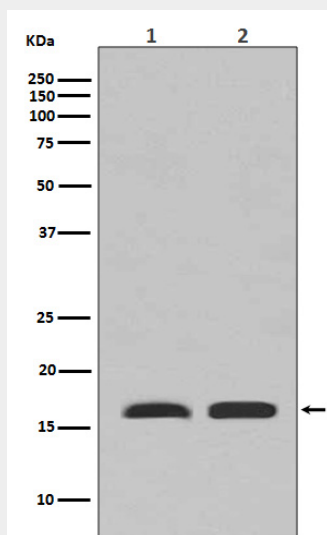
**Tissue Location**

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**

Western blot analysis of Calreticulin expression in (1) U87-MG cell lysate; (2) A431 cell lysate.