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Anti-PBR Antibody

Catalog # AP51876

Product Information

Application	WB, IF/IC
Primary Accession	P30536
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	18828

Additional Information

Gene ID	706
Other Names	BZRP; MBR; Translocator protein; Mitochondrial benzodiazepine receptor; PKBS; Peripheral-type benzodiazepine receptor; PBR
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 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

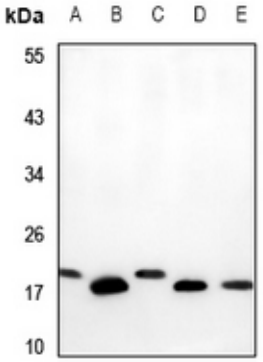
Protein Information

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.

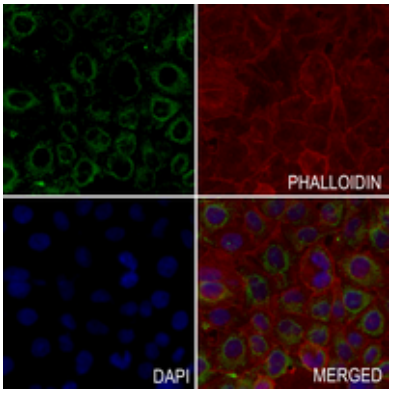
References

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Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).

Images



Western blot analysis of PBR expression in PMVEC (A), HepG2 (B), 3T3L1 (C), A2780 (D), A549 (E) whole cell lysates. (Predicted band size: 18 kD; Observed band size: 18 kD)



Immunofluorescent analysis of PBR staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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