

bs-3674R**[Primary Antibody]****TSPO/PBR Rabbit pAb****Bioss**
ANTIBODIES

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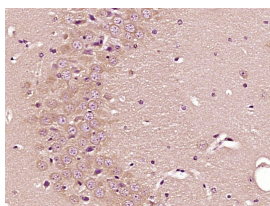
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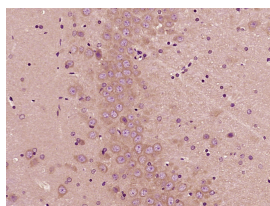
400-901-9800

— DATASHEET —

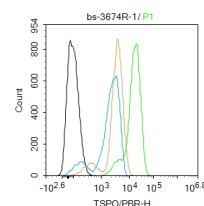
Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500)
Clonality: Polyclonal		IHC-F (1:100-500)
GeneID: 706	SWISS: B1AH88	IF (1:100-500)
Target: TSPO/PBR		Flow-Cyt (1ug/test)
Immunogen: KLH conjugated synthetic peptide derived from human PBR: 31-130/169.		Reactivity: Human, Mouse, Rat (predicted: Pig, Dog)
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		Predicted MW.: 18 kDa
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		Subcellular Location: Cytoplasm
Background: PBR (Peripheral type Benzodiazepine Receptor) is a ubiquitous protein (18 kDa) found in most steroidogenic tissues. It is located primarily in the outer mitochondrial membrane of steroid producing tissues and is found in association with a 34 kDa voltage dependent anion channel protein (VDAC). PBR interacts with some benzodiazepines and has different affinities than its endogenous counterpart. PBR appears to be a key factor in the transport of cholesterol from the outer to the inner mitochondrial membrane to permit the initiation of steroid hormone synthesis. It is thought to be part of the mitochondrial permeability transition pore (PT) and to be involved in apoptosis. It is speculated that patients with congenital lipid adrenal hyperplasia, who cannot make any steroids, might have a genetic lesion in BZRP. A short form, PBRS is also expressed in the same tissues, but at a level about ten times that of PBR.		

— VALIDATION IMAGES —

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PBR) Polyclonal Antibody, Unconjugated (bs-3674R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PBR) Polyclonal Antibody, Unconjugated (bs-3674R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control (black line) :Hela. Primary Antibody (green line): Rabbit Anti-TSPO/PBR antibody (bs-3674R) Dilution:1ug/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Isotype control (orange line) : Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=4.1]** Wenqian Xie. et al. Seasonal expressions of the translocator protein (18 kDa), voltage-dependent anion channel, and steroidogenic acute regulatory protein in the scent glands of muskrats (*Ondatra zibethicus*). J STEROID BIOCHEM. 2023 Nov;234:106400 IHC ;Muskrat. 37722462