

ARG64874 anti-TSPO / PBR antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes TSPO / PBR
Tested Reactivity	Ms
Predict Reactivity	Hu, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	TSPO / PBR
Species	Mouse
Immunogen	C-RDNSGRRGG SRLPE
Conjugation	Un-conjugated
Alternate Names	DBI; BZRP; PBS; PBR; pk18; PKBS; mDRC; BPBS; IBP; Translocator protein; Mitochondrial benzodiazepine receptor; PTBR; MBR; Peripheral-type benzodiazepine receptor

Application Instructions

Application table	Application	Dilution
	FACS	10 µg/ml
	ICC/IF	Assay - dependent
	IHC-P	10 µg/ml
	WB	0.01 - 0.1 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

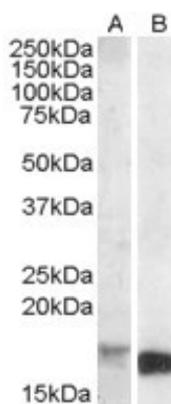
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

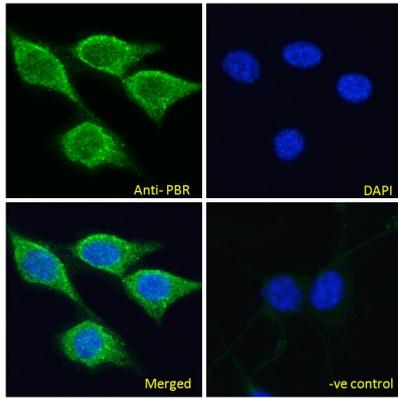
Database links	GeneID: 12257 Mouse Swiss-port # P50637 Mouse
Gene Symbol	Tspo
Gene Full Name	translocator protein
Background	Present mainly in the mitochondrial compartment of peripheral tissues, the protein encoded by this gene interacts with some benzodiazepines and has different affinities than its endogenous counterpart. The protein is a key factor in the flow of cholesterol into mitochondria to permit the initiation of steroid hormone synthesis. Alternatively spliced transcript variants have been reported; one of the variants lacks an internal exon and is considered non-coding, and the other variants encode the same protein. [provided by RefSeq, Feb 2012]
Function	Can bind protoporphyrin IX and may play a role in the transport of porphyrins and heme (By similarity). Was initially identified as peripheral-type benzodiazepine receptor; can also bind isoquinoline carboxamides. Promotes the transport of cholesterol across mitochondrial membranes and may play a role in lipid metabolism (PubMed:9832438, PubMed:24814875), but its precise physiological role is controversial. According to some reports, it is not required for steroid hormone biosynthesis (PubMed:24174323, PubMed:24936060). [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Cell Death antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	19 kDa

Images



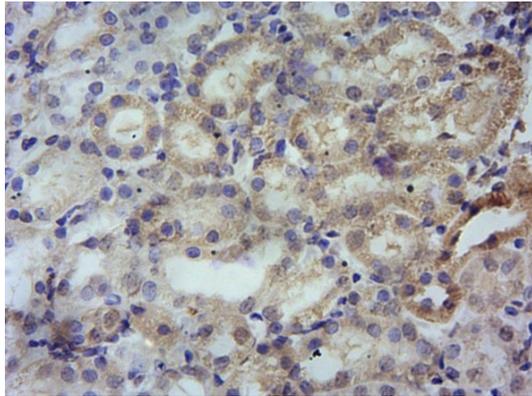
ARG64874 anti-TSPO / PBR antibody WB image

Western blot: Mouse Kidney lysate (A) and Mouse Spleen lysate (B) (35 µg protein in RIPA buffer). stained with ARG64874 anti-TSPO / PBR antibody at 1 µg/ml dilution.



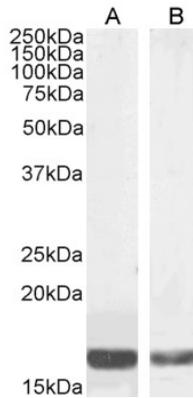
ARG64874 anti-TSPO / PBR antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed NIH/3T3 cells permeabilized with 0.15% Triton. Cells were stained with ARG64874 anti-TSPO / PBR antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.



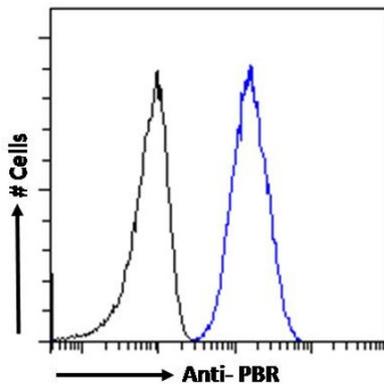
ARG64874 anti-TSPO / PBR antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse kidney tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0). The tissue section was stained with ARG64874 anti-TSPO / PBR antibody at 10 µg/ml dilution followed by HRP-staining.



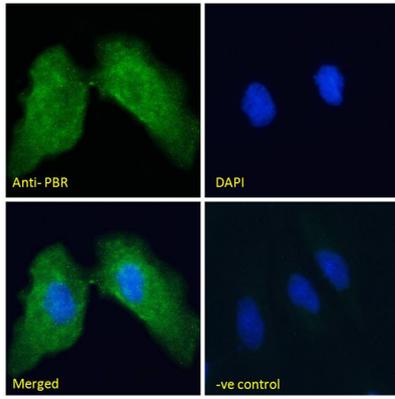
ARG64874 anti-TSPO / PBR antibody WB image

Western blot: 35 µg of Mouse kidney (A) and NIH/3T3 (B) cell lysates (in RIPA buffer) stained with ARG64874 anti-TSPO / PBR antibody at 0.03 µg/ml (A) and 0.01 µg/ml (B) dilutions and incubated at RT for 1 hour.



ARG64874 anti-TSPO / PBR antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed NIH/3T3 cells permeabilized with 0.5% Triton. Cells were stained with ARG64874 anti-TSPO / PBR antibody (blue line) at 10 µg/ml dilution for 1 hour, followed by incubation with Alexa FluorR 488 labelled secondary antibody. IgG control: Unimmunized goat IgG (black line).



ARG64874 anti-TSPO / PBR antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed HeLa cells permeabilized with 0.15% Triton. Cells were stained with ARG64874 anti-TSPO / PBR antibody (green) at 10 $\mu\text{g/ml}$ dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 $\mu\text{g/ml}$ dilution.