

For Research Use Only

# TSPO/PBR Monoclonal antibody

Catalog Number: 68137-1-Ig 1 Publications



## Basic Information

<b>Catalog Number:</b> 68137-1-Ig	<b>GenBank Accession Number:</b> BC001110	<b>Purification Method:</b> Caprylic acid/ammonium sulfate precipitation
<b>Size:</b> 150ul, Concentration: 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 706	<b>CloneNo.:</b> 1D1F12
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P30536	<b>Recommended Dilutions:</b> WB 1:2000-1:16000 IF/ICC 1:400-1:1600
<b>Isotype:</b> IgM	<b>Full Name:</b> translocator protein (18kDa)	
<b>Immunogen Catalog Number:</b> AG7475	<b>Calculated MW:</b> 18 kDa	
	<b>Observed MW:</b> 18 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IF	<b>WB :</b> K-562 cells, LNCaP cells, Jurkat cells, HeLa cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells
<b>Species Specificity:</b> human, mouse, rat	<b>IF/ICC :</b> NIH/3T3 cells,
<b>Cited Species:</b> human	

## Background Information

TSPO, also named Peripheral-type benzodiazepine receptor (PBR), encodes the translocator protein, belonging to tryptophan-rich sensory protein family. The protein is mainly localized in the outer mitochondrial membrane and expressed in steroid-synthesizing tissues (PMID:32881658, PMID:1326278). TSPO is involved in the translocation of cholesterol from the outer to inner mitochondrial membrane (PMID:21119734). In response to injury, TSPO has a upregulated expression in the peripheral nervous system (PMID:32423330, PMID:23251719). TSPO is also as a biomarker in a non-invasive procedure including detecting the inflammation in the heart and atherosclerotic plaques (PMID:24402571).

## Notable Publications

Author	Pubmed ID	Journal	Application
Tao Bi	39530628	Adv Healthc Mater	WB,IF

## Storage

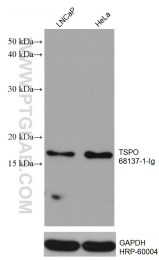
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

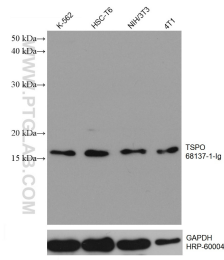
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

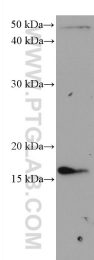
Selected Validation Data



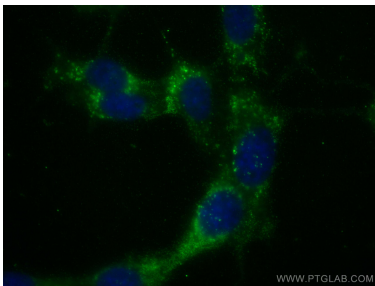
Various lysates were subjected to SDS PAGE followed by western blot with 68137-1-Ig (TSPO/PBR antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



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Jurkat cells were subjected to SDS PAGE followed by western blot with 68137-1-Ig (TSPO/PBR antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using TSPO/PBR antibody (68137-1-Ig, Clone: 1D1F12 ) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).