

For Research Use Only

# TSPO/PBR Monoclonal antibody

Catalog Number: 68137-1-Ig



## Basic Information

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

## Applications

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

## Background Information

TSPO, also named 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).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

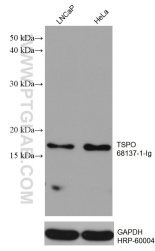
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

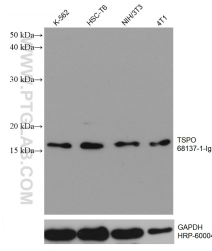
E: proteintech@ptglab.com  
W: ptglab.com

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

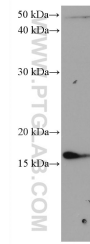
## Selected Validation Data



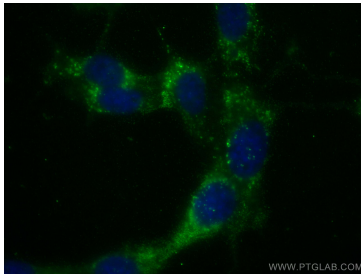
Various lysates were subjected to SDS PAGE followed by western blot with 68137-1-Ig (TSP0/PBR antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Various lysates were subjected to SDS PAGE followed by western blot with 68137-1-Ig (TSP0/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.



Jurkat cells were subjected to SDS PAGE followed by western blot with 68137-1-Ig (TSP0/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 TSP0/PBR antibody (68137-1-Ig, Clone: 1D1F12) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).