

For Research Use Only

TSPO/PBR Monoclonal antibody

Catalog Number: 68137-1-Ig



Basic Information

Catalog Number: 68137-1-Ig	GenBank Accession Number: BC001110	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 706	CloneNo.: 1D1F12
Source: Mouse	UNIPROT ID: P30536	Recommended Dilutions: WB 1:2000-1:16000 IF 1:400-1:1600
Isotype: IgM	Full Name: translocator protein (18kDa)	
Immunogen Catalog Number: AG7475	Calculated MW: 18 kDa	
	Observed MW: 18 kDa	

Applications

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

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).

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

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

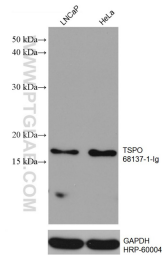
T: 4006900926

E: Proteintech-CN@ptglab.com

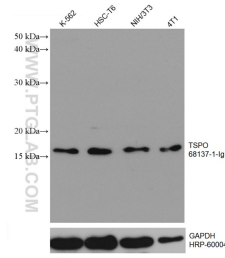
W: ptgcn.com

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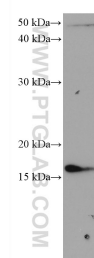
Selected Validation Data



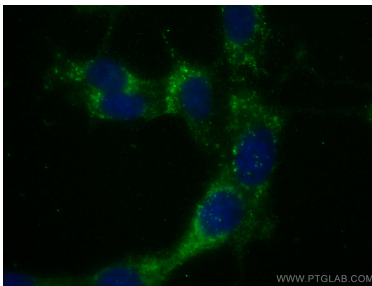
Various lysates were subjected to SDS PAGE followed by western blot with 68137-1-Ig (TSPO/PBR antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



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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 AffiniPure Goat Anti-Mouse IgG(H+L).