

TSPO/PBR Polyclonal antibody

Catalog Number: 15444-1-AP

1 Publications

Basic Information

Catalog Number: 15444-1-AP	GenBank Accession Number: BC001110	Purification Method: Antigen affinity purification
Size: 350 µg/ml	GeneID (NCBI): 706	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P30536	
Isotype: IgG	Full Name: translocator protein (18kDa)	
Immunogen Catalog Number: AG7475	Calculated MW: 18 kDa	
	Observed MW: 18 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : HEK-293 cells, IHC : mouse heart tissue,
Cited Applications: IHC	
Species Specificity: human, mouse	
Cited Species: mouse	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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
Wenbo Xia	36512294	Neurochem Res	IHC

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

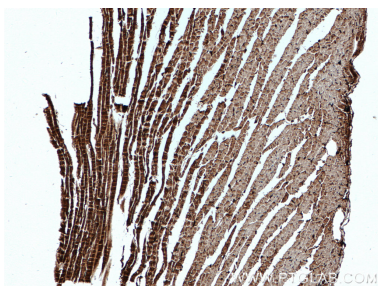
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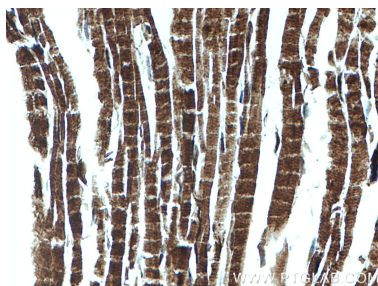
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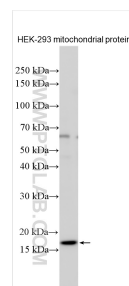
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 15444-1-AP (TSPO/PBR antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 15444-1-AP (TSPO antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



HEK-293 cells were subjected to SDS PAGE followed by western blot with 15444-1-AP (TSPO/PBR antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.