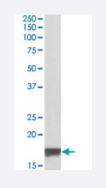
TSPO polyclonal antibody

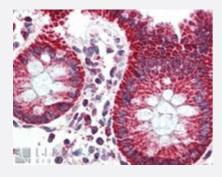
Catalog # PAB7095 Size 100 ug

Applications



Western Blot (Tissue lysate)

TSPO polyclonal antibody (Cat # PAB7095) (0.1 ug/mL) staining of human brain lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections)

TSPO polyclonal antibody (Cat # PAB7095) (2.5 ug/mL) staining of paraffin embedded human colon. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

| Specification | |
|----------------------|--|
| Product Description | Goat polyclonal antibody raised against synthetic peptide of TSPO. |
| Immunogen | A synthetic peptide corresponding to human TSPO. |
| Sequence | C-RDNHGWRGGRRLPE |
| Host | Goat |
| Theoretical MW (kDa) | 18.8 |
| Reactivity | Human |
| Specificity | This antibody is expected to recognize one isoform (NP_000705.2) only. |

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Product Information

| Form | Liquid |
|-------------------------|--|
| Purification | Antigen affinity purification |
| Concentration | 0.5 mg/mL |
| Quality Control Testing | Antibody Reactive Against Synthetic Peptide. |
| Recommend Usage | ELISA (1:128000) Western Blot (0.1-0.3 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (2-4 ug/mL) The optimal working dilution should be determined by the end user. |
| Storage Buffer | In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide) |
| Storage Instruction | Store at -20°C. Aliquot to avoid repeated freezing and thawing. |
| Note | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

Applications

• Western Blot (Tissue lysate)

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• Enzyme-linked Immunoabsorbent Assay

Gene Info — TSPO

| Entrez GenelD | <u>706</u> |
|--------------------|--|
| Protein Accession# | <u>NP_000705.2</u> |
| Gene Name | TSPO |
| Gene Alias | BZRP, DBI, IBP, MBR, PBR, PKBS, PTBR, mDRC, pk18 |
| Gene Description | translocator protein (18kDa) |

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Product Information

| Omim ID | <u>109610</u> |
|--------------------|--|
| Gene Ontology | Hyperlink |
| Gene Summary | Present mainly in the mitochondrial compartment of peripheral tissues, the protein encoded by thi s gene interacts with some benzodiazepines and has different affinities than its endogenous coun terpart. The protein is a key factor in the flow of cholesterol into mitochondria to permit the initiatio n of steroid hormone synthesis. Alternate transcriptional splice variants, encoding different isofor ms, have been characterized. [provided by RefSeq |
| Other Designations | OTTHUMP0000028891 benzodiazepine peripheral binding site mitochondrial benzodiazepine r eceptor peripheral benzodiazepine receptor peripheral-type benzodiazepine receptor translocator protein |

Publication Reference

• <u>Kinetic modelling of [11C]PBR28 for 18 kDa translocator protein PET data: A validation study of vascular</u> modelling in the brain using XBD173 and tissue analysis.

Veronese M, Reis Marques T, Bloomfield PS, Rizzo G, Singh N, Jones D, Agushi E, Mosses D, Bertoldo A, Howes O, Roncaroli F, Turkheimer FE.

Journal of Cerebral Blood Flow and Metabolism 2017 Jan; 271678X17712388.

Application: IF, IHC-P, Human, Human brain

 <u>Translocator protein (18kDa): new nomenclature for the peripheral-type benzodiazepine receptor based on its</u> structure and molecular function.

Papadopoulos V, Baraldi M, Guilarte TR, Knudsen TB, Lacapere JJ, Lindemann P, Norenberg MD, Nutt D, Weizman A, Zhang MR, Gavish M.

Trends in Pharmacological Sciences 2006 Aug; 27(8):402.

Application: IF, WB, Human, Human mammalian cells

Pathway

• <u>Neuroactive ligand-receptor interaction</u>

Disease

- Asperger Syndrome
- Autistic Disorder
- Genetic Predisposition to Disease

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Product Information

- Kidney Failure
- Lung Neoplasms
- <u>Mood Disorders</u>
- Panic Disorder
- Social Perception
- Urinary Bladder Neoplasms