

BZRP Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP6606b**Specification**

BZRP Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P30536](#)**BZRP Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 706**Other Names**

Translocator protein, Mitochondrial benzodiazepine receptor, PKBS, Peripheral-type benzodiazepine receptor, PBR, TSPO, BZRP, MBR

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6606b](/products/AP6606b) was selected from the C-term region of human BZRP. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

BZRP Antibody (C-term) Blocking Peptide - Protein Information**Name** TSPO**Synonyms** BZRP, MBR**Function**

Can bind protoporphyrin IX and may play a role in the transport of porphyrins and heme (By similarity). Promotes the transport of cholesterol across mitochondrial membranes and may play a role in lipid metabolism (PubMed: [24814875](http://www.uniprot.org/citations/24814875)), but its precise physiological role is controversial. It is apparently not required for steroid hormone biosynthesis. Was initially identified as peripheral-type benzodiazepine receptor; can also bind isoquinoline carboxamides (PubMed: [1847678](http://www.uniprot.org/citations/1847678)).

Cellular Location

Mitochondrion membrane; Multi-pass membrane protein

Tissue Location

Found in many tissue types. Expressed at the highest levels under normal conditions in tissues that synthesize steroids.

BZRP Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

BZRP Antibody (C-term) Blocking Peptide - Images**BZRP Antibody (C-term) Blocking Peptide - Background**

Present mainly in the mitochondrial compartment of peripheral tissues, the protein BZRP interacts with some benzodiazepines and has different affinities than its endogenous counterpart. The protein is a key factor in the flow of cholesterol into mitochondria to permit the initiation of steroid hormone synthesis.

BZRP Antibody (C-term) Blocking Peptide - References

Cosenza-Nashat, M., Neuropathol. Appl. Neurobiol. 35 (3), 306-328 (2009) Karry, R., Pharmacogenet. Genomics 18 (11), 977-988 (2008)