

WARS2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP7586b**Specification**

WARS2 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9UGM6](#)**WARS2 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 10352**Other Names**

Tryptophan--tRNA ligase, mitochondrial, (Mt)TrpRS, Tryptophanyl-tRNA synthetase, TrpRS, WARS2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7586b](/products/AP7586b) was selected from the C-term region of human WARS2. 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.

WARS2 Antibody (C-term) Blocking Peptide - Protein Information**Name** WARS2**Function**

Catalyzes the attachment of tryptophan to tRNA(Trp) in a two- step reaction: tryptophan is first activated by ATP to form Trp-AMP and then transferred to the acceptor end of tRNA(Trp).

Cellular Location

Mitochondrion matrix. Mitochondrion

Tissue Location

Brain..

WARS2 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

WARS2 Antibody (C-term) Blocking Peptide - Images

WARS2 Antibody (C-term) Blocking Peptide - Background

Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Two forms of tryptophanyl-tRNA synthetase exist, a cytoplasmic form, named WARS, and a mitochondrial form, named WARS2.

WARS2 Antibody (C-term) Blocking Peptide - References

Guo,L.T.,Nucleic Acids Res. 35 (17), 5934-5943 (2007)Liu,J., (er) Nucleic Acids Res. 32 (2), 719-727 (2004)Jorgensen,R., J. Biol. Chem. 275 (22), 16820-16826 (2000)