

WARS Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2934a**Specification**

WARS Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P23381](#)**WARS Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 7453**Other Names**

Tryptophan--tRNA ligase, cytoplasmic, Interferon-induced protein 53, IFP53, Tryptophanyl-tRNA synthetase, TrpRS, hWRS, T1-TrpRS, T2-TrpRS, WARS, IFI53, WRS

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2934a](/products/AP2934a) was selected from the N-term region of human WARS. 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.

WARS Antibody (N-term) Blocking Peptide - Protein Information**Name** WARS1 ([HGNC:12729](#))**Synonyms** IFI53, WARS, WRS**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 the tRNA(Trp).

Cellular Location

Cytoplasm.

WARS Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

WARS Antibody (N-term) Blocking Peptide - Images

WARS Antibody (N-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. Tryptophanyl-tRNA synthetase (WARS) catalyzes the aminoacylation of tRNA(trp) with tryptophan and is induced by interferon. Tryptophanyl-tRNA synthetase belongs to the class I tRNA synthetase family.

WARS Antibody (N-term) Blocking Peptide - References

Kapoor, M., et.al., J. Biol. Chem. 283 (4), 2070-2077 (2008)