

**WARS Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18122b****Specification**

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**WARS Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P23381](#)**WARS Antibody (C-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

**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 (C-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 (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**WARS Antibody (C-term) Blocking Peptide - Images**

### **WARS 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. 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. Four transcript variants encoding two different isoforms have been found for this gene.

### **WARS Antibody (C-term) Blocking Peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Bhattacharyya, M., et al. Proteins 78(3):506-517(2010) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Ghanipour, A., et al. Cancer Epidemiol. Biomarkers Prev. 18(11):2949-2956(2009) Wang, S., et al. Endocrine 36(1):119-125(2009)