

WARS Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18122b**Specification**

WARS Antibody (C-term) - Product Information

| | |
|-------------------|--|
| Application | WB,E |
| Primary Accession | P23381 |
| Other Accession | P17248 , NP_004175.2 |
| Reactivity | Human |
| Predicted | Bovine |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 53165 |
| Antigen Region | 429-458 |

WARS Antibody (C-term) - 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

This WARS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 429-458 amino acids from the C-terminal region of human WARS.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

WARS Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

WARS Antibody (C-term) - 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

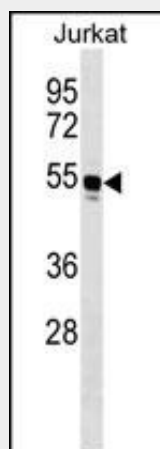
Cytoplasm.

WARS Antibody (C-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

WARS Antibody (C-term) - Images



WARS Antibody (C-term) (Cat. #AP18122b) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the WARS antibody detected the WARS protein (arrow).

WARS Antibody (C-term) - 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) - 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)