

# WARS Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP18122b

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P23381</a>
<b>Other Accession</b>	<a href="#">P17248</a> , <a href="#">NP_004175.2</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB21178
<b>Calculated MW</b>	53165
<b>Antigen Region</b>	429-458

## Additional Information

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<b>Gene ID</b>	7453
<b>Other Names</b>	Tryptophan--tRNA ligase, cytoplasmic, Interferon-induced protein 53, IFP53, Tryptophanyl-tRNA synthetase, TrpRS, hWRS, T1-TrpRS, T2-TrpRS, WARS, IFI53, WRS
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	WARS Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	WARS1 ( <a href="#">HGNC:12729</a> )
<b>Synonyms</b>	IFI53, WARS, WRS

<b>Function</b>	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).
<b>Cellular Location</b>	Cytoplasm.

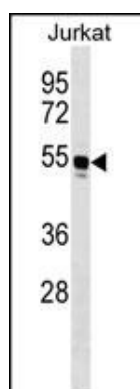
## Background

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.

## 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)

## 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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.