WARS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	WARS, Polyclonal Antibody
Full Product Name	WARS Polyclonal Antibody
Product Gene Name	anti-WARS antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	48kDa; 53kDa
OMIM	191050
3D Structure	ModBase 3D Structure for P23381
Immunogen	Recombinant protein of human WARS (NP_776049.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-WARS antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-WARS antibody	WB: 1:500-1:2000 IF: 1:10-1:100
Related Product Information for anti-WARS antibody	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.
Other Notes	Small volumes of anti-WARS antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for WARS purchase	MBS8572629 is an antibody targeting WARS. Also known as WARS Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for WARS. It may not necessarily be applicable to this product.

NCBI GI #	47419914
NCBI GeneID	7453
NCBI Accession #	NP_004175.2

UniProt Primary Accession #	P23381
UniProt Related Accession #	P23381
GenBank Nucleotide #	NP_004175.2
NCBI Official Full Name	tryptophan--tRNA ligase, cytoplasmic isoform a
NCBI Official Synonym Full Names	tryptophanyl-tRNA synthetase 1
NCBI Official Symbol	WARS1
NCBI Official Synonym Symbols	HMN9; WARS; IFI53; IFP53; GAMMA-2
UniProt Protein Name	Tryptophan--tRNA ligase, cytoplasmic
UniProt Synonym Protein Names	Interferon-induced protein 53; IFP53; Tryptophanyl-tRNA synthetase; TrpRS; hWRS
Protein Family	Tryptophan--tRNA ligase
UniProt Gene Name	WARS
UniProt Synonym Gene Names	IFI53; WRS; IFP53; TrpRS; hWRS
UniProt Entry Name	SYWC_HUMAN
NCBI Protein Information	tryptophan--tRNA ligase, cytoplasmic
UniProt Comments for WARS	WARS: Isoform 1, isoform 2 and T1-TrpRS have aminoacylation activity while T2-TrpRS lacks it. Isoform 2, T1-TrpRS and T2-TrpRS possess angiostatic activity whereas isoform 1 lacks it. T2-TrpRS inhibits fluid shear stress-activated responses of endothelial cells. Regulates ERK, Akt, and eNOS activation pathways that are associated with angiogenesis, cytoskeletal reorganization and shear stress-responsive gene expression. Belongs to the class-I aminoacyl-tRNA synthetase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Amino Acid Metabolism - tryptophan; Translation; Ligase; EC 6.1.1.2 Chromosomal Location of Human Ortholog: 14q32.31 Cellular Component: cytoplasm; cytosol; nucleus Molecular Function: protein binding; tryptophan-tRNA ligase activity; ATP binding Biological Process: negative regulation of cell proliferation; tRNA aminoacylation for protein translation; tryptophanyl-tRNA aminoacylation; translation; gene expression; angiogenesis; regulation of angiogenesis
Research Articles on WARS	**1.** Inhibition of human tryptophanyl-tRNA synthetase (TrpRS) expression by TrpRS-specific siRNAs decreased and overexpression of TrpRS increased Trp uptake into the cells
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