

Human Tryptophanyl-tRNA Synthetase (WARS) ELISA Kit | WARS elisa kit

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CATALOG #
AAA330268

REACTIVITY
Human

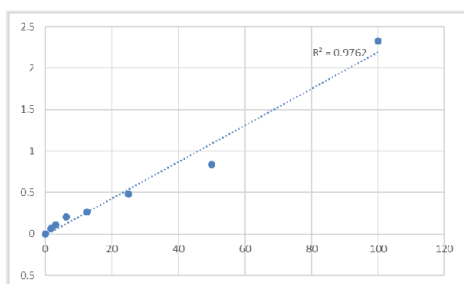
PRODUCT SYNONYMS

Tryptophanyl-tRNA Synthetase (WARS); Human Tryptophanyl-tRNA Synthetase (WARS) ELISA Kit; WARS; GAMMA-2; IFI53; IFP53; interferon-induced protein 53; tryptophan tRNA ligase 1; cytoplasmic; WARS elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Tryptophanyl-tRNA synthetase (WARS) ELISA Kit has high sensitivity and excellent specificity for detection of Human WARS. No significant cross-reactivity or interference between Human WARS and analogues was observed.
Sequence Length	471
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Tryptophanyl-tRNA synthetase (WARS) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for WARS elisa kit	Description: This Human Tryptophanyl-tRNA synthetase (WARS) ELISA Kit employs a two-site sandwich ELISA to quantitate WARS in samples. An antibody specific for WARS has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any WARS present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for WARS is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of WARS bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Tryptophanyl-tRNA synthetase, cytoplasmic is an enzyme that in humans is encoded by the WARS gene. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	47419914
NCBI GeneID	7453
NCBI Accession #	NP_004175.2
NCBI GenBank Nucleotide #	NP_004175.2
UniProt Accession #	P23381
NCBI Official Full Name	tryptophan--tRNA ligase, cytoplasmic isoform a
NCBI Official Synonym Full Names	tryptophanyl-tRNA synthetase
NCBI Official Symbol	WARS
NCBI Official Synonym Symbols	HMN9; IFI53; IFP53; GAMMA-2
NCBI Protein Information	tryptophan--tRNA ligase, cytoplasmic
UniProt Protein Name	Tryptophan--tRNA ligase, cytoplasmic
UniProt Gene Name	WARS
UniProt Synonym Gene Names	IFI53; WRS; IFP53; TrpRS; hWRS
UniProt Entry Name	SYWC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.