

Human Tyrosyl tRNA synthetase, cytoplasmic (YARS) ELISA Kit | YARS elisa kit

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CATALOG #
AAA245096

REACTIVITY
Human

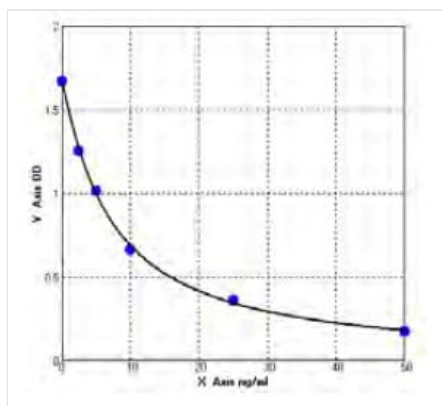
PRODUCT SYNONYMS

Tyrosyl tRNA synthetase; cytoplasmic (YARS); Human Tyrosyl tRNA synthetase; cytoplasmic (YARS) ELISA Kit; YARS elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of YARS. No significant cross-reactivity or interference between YARS and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between YARS and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for YARS elisa kit	Intended Uses: This YARS ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human YARS. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: YARS ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-YARS antibody and an YARS-HRP conjugate. The assay sample and buffer are incubated together with YARS-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the YARS concentration since YARS from samples and YARS-HRP conjugate compete for the anti-YARS antibody binding site. Since the number of sites is limited, as more sites are occupied by YARS from the sample, fewer sites are left to bind YARS-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The YARS concentration in each sample is interpolated from this standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507947
NCBI GeneID	8565
NCBI Accession #	NP_003671.1
NCBI GenBank Nucleotide #	NM_003680.3
Molecular Weight	59,143 Da
NCBI Official Full Name	tyrosine--tRNA ligase, cytoplasmic
NCBI Official Synonym Full Names	tyrosyl-tRNA synthetase
NCBI Official Symbol	YARS
NCBI Official Synonym Symbols	YRS; YTS; TYRRS; CMTDIC
NCBI Protein Information	tyrosine--tRNA ligase, cytoplasmic; tyrosyl--tRNA ligase; tyrosine tRNA ligase 1, cytoplasmic; tyrosyl-tRNA synthetase, cytoplasmic
UniProt Protein Name	Tyrosine--tRNA ligase, cytoplasmic
UniProt Gene Name	YARS
UniProt Synonym Gene Names	TyrRS
UniProt Entry Name	SYYC_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.