Human 28S Ribosomal Protein S21, Mitochondrial (MRPS21) ELISA Kit | MRPS21 elisa kit

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CATALOG #	REACTIVITY
AAA331692	**Human**

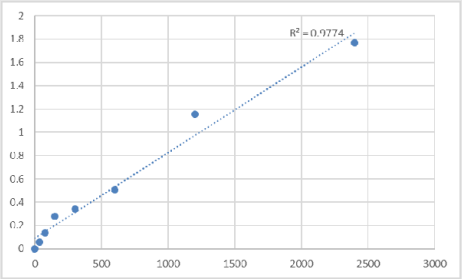
PRODUCT SYNONYMS

28S Ribosomal Protein S21; Mitochondrial (MRPS21); Human 28S Ribosomal Protein S21; Mitochondrial (MRPS21) ELISA Kit; MRPS21; MDS016; MRP-S21; RPMS21; mitochondrial 28S ribosomal protein S21; MRPS21 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human 28S ribosomal protein S21, mitochondrial (MRPS21) ELISA Kit has high sensitivity and excellent specificity for detection of Human MRPS21. No significant cross-reactivity or interference between Human MRPS21 and analogues was observed.
Sequence Length	87
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 28S ribosomal protein S21, mitochondrial (MRPS21) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MRPS21 elisa kit	Description: This Human 28S ribosomal protein S21, mitochondrial (MRPS21) ELISA Kit employs a two-site sandwich ELISA to quantitate MRPS21 in samples. An antibody specific for MRPS21 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MRPS21 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MRPS21 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 MRPS21 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. MRPS21 encodes a 28S subunit protein, mitochondrial ribosomal protein S21 that belongs to the ribosomal protein S21P family. Pseudogenes corresponding to MRPS21 are found on chromosomes 1p, 1q, 9p, 10p, 10q, 16q, and 17q. Available sequence data analyses identified splice variants that differ in the 5' UTR; both transcripts encode the same protein.

NCBI AND UNIPROT INFORMATION

NCBI GI #	16950593
NCBI GeneID	54460
NCBI Accession #	NP_061870.1
NCBI GenBank Nucleotide #	NP_061870.1
UniProt Accession #	P82921
NCBI Official Full Name	28S ribosomal protein S21, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein S21
NCBI Official Symbol	MRPS21
NCBI Official Synonym Symbols	MDS016; RPMS21; MRP-S21
NCBI Protein Information	28S ribosomal protein S21, mitochondrial
UniProt Protein Name	28S ribosomal protein S21, mitochondrial
UniProt Gene Name	**MRPS21**
UniProt Synonym Gene Names	RPMS21; MRP-S21; S21mt
UniProt Entry Name	RT21_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.

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Online datasheet: https://stage.aaabiotech.com/human-elisa-kits/28s-ribosomal-protein-s21-mitochondrial-mrps21/331692