Human 28S Ribosomal Protein S22, Mitochondrial (MRPS22) ELISA Kit | MRPS22 elisa kit

Human 28S Ribosomal Protein S22, Mitochondrial (MRPS22) ELISA Kit

CATALOG #	REACTIVITY
AAA331691	**Human**

PRODUCT SYNONYMS

28S Ribosomal Protein S22; Mitochondrial (MRPS22); Human 28S Ribosomal Protein S22; Mitochondrial (MRPS22) ELISA Kit; MRPS22; C3orf5; COXPD5; GIBT; GK002; MRP-S22; RPMS22; MRPS22 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human 28S ribosomal protein S22, mitochondrial (MRPS22) ELISA Kit has high sensitivity and excellent specificity for detection of Human MRPS22. No significant cross-reactivity or interference between Human MRPS22 and analogues was observed.
Sequence Length	360
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 S22, mitochondrial (MRPS22) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MRPS22 elisa kit	Description: This Human 28S ribosomal protein S22, mitochondrial (MRPS22) ELISA Kit employs a two-site sandwich ELISA to quantitate MRPS22 in samples. An antibody specific for MRPS22 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MRPS22 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MRPS22 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 MRPS22 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. MRPS22 encodes a 28S subunit protein, mitochondrial ribosomal protein S22 that does not seem to have a counterpart in prokaryotic and fungal-mitochondrial ribosomes. MRPS22 lies telomeric of and is transcribed in the opposite direction from the forkhead box L2 gene. A pseudogene corresponding to MRPS22 is found on chromosome Xq.

NCBI AND UNIPROT INFORMATION

NCBI GI #	9910244
NCBI GeneID	56945
NCBI Accession #	NP_064576.1
NCBI GenBank Nucleotide #	NP_064576.1
UniProt Accession #	P82650
NCBI Official Full Name	28S ribosomal protein S22, mitochondrial isoform 1
NCBI Official Synonym Full Names	mitochondrial ribosomal protein S22
NCBI Official Symbol	MRPS22
NCBI Official Synonym Symbols	GIBT; ODG7; GK002; C3orf5; COXPD5; RPMS22; MRP-S22
NCBI Protein Information	28S ribosomal protein S22, mitochondrial
UniProt Protein Name	28S ribosomal protein S22, mitochondrial
UniProt Gene Name	**MRPS22**
UniProt Synonym Gene Names	C3orf5; RPMS22; MRP-S22; S22mt
UniProt Entry Name	RT22_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-s22-mitochondrial-mrps22/331691