Human 28S Ribosomal Protein S23, Mitochondrial (MRPS23) ELISA Kit | MRPS23 elisa kit

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CATALOG #	REACTIVITY
AAA331690	**Human**

PRODUCT SYNONYMS

28S Ribosomal Protein S23; Mitochondrial (MRPS23); Human 28S Ribosomal Protein S23; Mitochondrial (MRPS23) ELISA Kit; MRPS23; CGI-138; HSPC329; MRP-S23; MRPS23 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human 28S ribosomal protein S23, mitochondrial (MRPS23) ELISA Kit has high sensitivity and excellent specificity for detection of Human MRPS23. No significant cross-reactivity or interference between Human MRPS23 and analogues was observed.
Sequence Length	190
Assay Type	Sandwich
Samples	Human serum, cell culture supernates and other biological fluids
Detection Range	12.5 pg/ml - 200 pg/ml
Sensitivity	< 1pg/ml
Intra-assay Precision	Four samples of known concentration were tested twenty times on one plate to assess intra-assay precision. The CV (%)?9%.
Inter-assay Precision	Three samples of known concentration were tested in twenty separate assays to assess inter-assay precision. Assays were performed by at least three technicians using two lots of components. The CV (%)?11%.
Preparation and Storage	Store at 2-8 degree C.

IMAGES

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MRPS23 elisa kit	Background: Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help inprotein 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. Principle of the Assay: Human 28S ribosomal protein S23, mitochondrial (MRPS23) ELISA Kit employs a two-sitesandwich ELISA to quantitate MRPS23 in samples. An antibody specific for MRPS23 hasbeen pre-coated onto a microplate. Standards and samples are pipetted into the wells andany MRPS23 present is bound by the immobilized antibody. After removing any unboundsubstances, HRP-Conjugated Human MRPS23 detection antibody is added to the wells. Following a wash to remove any unbound HRP reagent, a Chromogen solution is addedto the wells and color develops in proportion to the amount of MRPS23 bound in the initial step. The color development is stopped and the intensity of the color is measured.

NCBI AND UNIPROT INFORMATION

NCBI GI #	16554604
NCBI GeneID	51649
NCBI Accession #	NP_057154.2
NCBI GenBank Nucleotide #	NP_057154.2
UniProt Accession #	Q9Y3D9
NCBI Official Full Name	28S ribosomal protein S23, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein S23
NCBI Official Symbol	MRPS23
NCBI Official Synonym Symbols	CGI-138; HSPC329; MRP-S23
NCBI Protein Information	28S ribosomal protein S23, mitochondrial
UniProt Protein Name	28S ribosomal protein S23, mitochondrial
UniProt Gene Name	**MRPS23**
UniProt Synonym Gene Names	MRP-S23; S23mt
UniProt Entry Name	RT23_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-s23-mitochondrial-mrps23/331690