

Human Peptide Chain Release Factor 1, Mitochondrial (MTRF1) ELISA Kit | MTRF1 elisa kit

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CATALOG #
AAA331638

REACTIVITY
Human

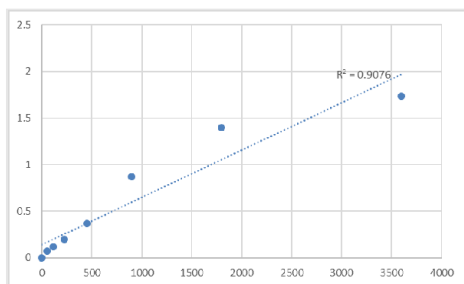
PRODUCT SYNONYMS

Peptide Chain Release Factor 1; Mitochondrial (MTRF1); Human Peptide Chain Release Factor 1; Mitochondrial (MTRF1) ELISA Kit; MTRF1; RP11-74J13.3; MGC47721; MRF1; MTTRF1; RF1; OTTHUMP00000018316; mitochondrial peptide chain release factor 1; MTRF1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Peptide chain release factor 1, mitochondrial (MTRF1) ELISA Kit has high sensitivity and excellent specificity for detection of Human MTRF1. No significant cross-reactivity or interference between Human MTRF1 and analogues was observed.
Sequence Length	445
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 Peptide chain release factor 1, mitochondrial (MTRF1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MTRF1 elisa kit	Description: This Human Peptide chain release factor 1, mitochondrial (MTRF1) ELISA Kit employs a two-site sandwich ELISA to quantitate MTRF1 in samples. An antibody specific for MTRF1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MTRF1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MTRF1 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 MTRF1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Mitochondrial translation release factor 1 encoded by MTRF1 was determined by in silico methods to be a mitochondrial protein with similarity to the peptide chain release factors (RFs) discovered in bacteria and yeast. The peptide chain release factors direct the termination of translation in response to the peptide chain termination codons. Initially thought to have a role in the termination of mitochondria protein synthesis, a recent publication found no mitochondrial translation release functionality. Multiple alternatively spliced transcript variants have been suggested by mRNA and EST data; however, their full-length natures are not clear.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	34577120
NCBI GeneID	9617
NCBI Accession #	NP_004285.2
NCBI GenBank Nucleotide #	NP_004285.2
UniProt Accession #	O75570
NCBI Official Full Name	peptide chain release factor 1, mitochondrial
NCBI Official Synonym Full Names	mitochondrial translation release factor 1
NCBI Official Symbol	MTRF1
NCBI Official Synonym Symbols	RF1; MRF1; MTTRF1
NCBI Protein Information	peptide chain release factor 1, mitochondrial
UniProt Protein Name	Peptide chain release factor 1, mitochondrial
UniProt Gene Name	MTRF1
UniProt Synonym Gene Names	MRF-1; MtRF-1
UniProt Entry Name	RF1M_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.