

Human Probable Peptidyl-tRNA Hydrolase (PTRH1) ELISA Kit | PTRH1 elisa kit

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CATALOG #
AAA331225

REACTIVITY
Human

PRODUCT SYNONYMS

Probable Peptidyl-tRNA Hydrolase (PTRH1); Human Probable Peptidyl-tRNA Hydrolase (PTRH1) ELISA Kit; PTRH1; C9orf115; MGC51999; PTH1; peptidyl-tRNA hydrolase 1 homolog; PTRH1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Probable peptidyl-tRNA hydrolase (PTRH1) ELISA Kit has high sensitivity and excellent specificity for detection of Human PTRH1. No significant cross-reactivity or interference between Human PTRH1 and analogues was observed.
Sequence Length	214
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 Probable peptidyl-tRNA hydrolase (PTRH1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PTRH1 elisa kit	Description: This Human Probable peptidyl-tRNA hydrolase (PTRH1) ELISA Kit employs a two-site sandwich ELISA to quantitate PTRH1 in samples. An antibody specific for PTRH1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PTRH1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTRH1 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 PTRH1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: PTRH1, Belongs to the PTH family.Peptidyl-tRNA hydrolase (Pth) activity releases tRNA from the premature translation termination product peptidyl-tRNA. Two different enzymes have been reported to encode such activity, Pth present in bacteria and eukaryotes and Pth2 present in archaea and eukaryotes. Prokaryotic and eukaryotic cells show an enzymatic activity that releases the peptidyl moiety from the tRNA, called peptidyl-tRNA hydrolase (Pth), allowing the free tRNA and peptide to be reused in protein synthesis. First identified in Escherichia coli, genes encoding Pth have been found in bacteria and eukaryotes but not in archaea. E. coli Pth crystal structure has been solved and exhibits an alpha/beta fold formed by three layers with a mixed five-strand beta-sheet at the core.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	50897284
NCBI GeneID	138428
NCBI Accession #	NP_001002913.1
NCBI GenBank Nucleotide #	NP_001002913.1
UniProt Accession #	Q86Y79
NCBI Official Full Name	probable peptidyl-tRNA hydrolase isoform 1
NCBI Official Synonym Full Names	peptidyl-tRNA hydrolase 1 homolog
NCBI Official Symbol	PTRH1
NCBI Official Synonym Symbols	PTH1; C9orf115
NCBI Protein Information	probable peptidyl-tRNA hydrolase
UniProt Protein Name	Probable peptidyl-tRNA hydrolase
UniProt Gene Name	PTRH1
UniProt Synonym Gene Names	C9orf115; PTH
UniProt Entry Name	PTH_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.