Heat Shock 10kDa Protein 1 (HSP10) ELISA Kit for Donkey

PRODUCT OVERVIEW

Product Name	Heat Shock 10kDa Protein 1 (HSP10), ELISA Kit
Full Product Name	Donkey Heat Shock 10kDa Protein 1 ELISA Kit
Product Gene Name	HSP10 elisa kit
Species Reactivity	Donkey
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	10,932 Da
OMIM	600141
3D Structure	ModBase 3D Structure for P61604
Related Product Information for HSP10 elisa kit	MBS078074 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Heat Shock 10kDa Protein 1 (HSP10) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing HSP10. The ELISA analytical biochemical technique of the MBS078074 kit is based on HSP10 antibody-HSP10 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect HSP10 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, HSP10. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of HSP10 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HSP10. It may not necessarily be applicable to this product.

NCBI GI #	119590567
NCBI GeneID	3336
NCBI Accession #	EAW70161.1
UniProt Primary Accession #	P61604
UniProt Secondary Accession #	O95421; Q04984; Q53X54; Q9UDH0
UniProt Related Accession #	P61604
NCBI Official Full Name	heat shock 10kDa protein 1 (chaperonin 10), isoform CRA_g
NCBI Official Synonym Full Names	heat shock 10kDa protein 1
NCBI Official Symbol	HSPE1
NCBI Official Synonym Symbols	EPF; CPN10; GROES; HSP10
UniProt Protein Name	10 kDa heat shock protein, mitochondrial
UniProt Synonym Protein Names	10 kDa chaperonin; Chaperonin 10; CPN10; Early-pregnancy factor
Protein Family	10 kDa heat shock protein
UniProt Gene Name	HSPE1

UniProt Synonym Gene Names	Hsp10; CPN10; EPF
UniProt Entry Name	CH10_HUMAN
NCBI Protein Information	10 kDa heat shock protein, mitochondrial; chaperonin 10; 10 kDa chaperonin; early-pregnancy factor; heat shock 10kD protein 1 (chaperonin 10)
NCBI Summary for HSP10	This gene encodes a major heat shock protein which functions as a chaperonin. Its structure consists of a heptameric ring which binds to another heat shock protein in order to form a symmetric, functional heterodimer which enhances protein folding in an ATP-dependent manner. This gene and its co-chaperonin, HSPD1, are arranged in a head-to-head orientation on chromosome 2. Naturally occurring read-through transcription occurs between this locus and the neighboring locus MOBKL3.[provided by RefSeq, Feb 2011]
UniProt Comments for HSP10	HSPE1: Eukaryotic CPN10 homolog which is essential for mitochondrial protein biogenesis, together with CPN60. Binds to CPN60 in the presence of Mg-ATP and suppresses the ATPase activity of the latter. Belongs to the GroES chaperonin family. Protein type: Mitochondrial Chromosomal Location of Human Ortholog: 2q33.1 Cellular Component: membrane; mitochondrion; mitochondrial matrix Molecular Function: protein binding; chaperone binding; unfolded protein binding; ATP binding Biological Process: osteoblast differentiation; caspase activation; protein folding; response to unfolded protein
Research Articles on HSP10	**1.** Data show that that in presence of 300 mg/mL Ficoll the thermodynamic stability of each cpn10 monomer increases by over 30%, whereas the interfaces are stabilized by less than 10%.
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