

Human Heat Shock 70kDa Protein 8 (HSPA8) ELISA Kit | HSPA8 elisa kit

Human Heat Shock 70kDa Protein 8 (HSPA8) ELISA Kit

CATALOG #
AAA20685

REACTIVITY
Human

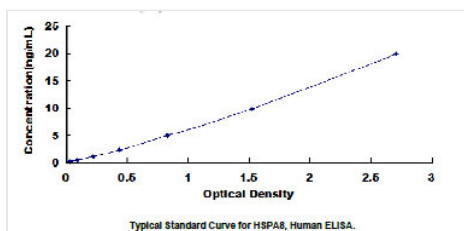
PRODUCT SYNONYMS

Heat Shock 70kDa Protein 8 (HSPA8); Human Heat Shock 70kDa Protein 8 (HSPA8) ELISA Kit; LAP1; HSC54; HSC70; HSC71; HSP71; HSPA10; NIP71; HSP73; Heat shock cognate 71 kDa protein; Lipopolysaccharide-associated protein 1; LPS-associated protein 1; HSPA8 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of HSPA8. No significant cross-reactivity or interference between HSPA8 and analogues was observed.
Sequence Length	493
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.117ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level HSPA8 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level HSPA8 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for HSPA8 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of HSPA8 in human serum, plasma, tissue homogenates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to HSPA8. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to HSPA8. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain HSPA8, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of HSPA8 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for HSPA8 elisa kit	Signal Transduction
References	Age-Related Decrease in Heat Shock 70-kDa Protein 8 in Cerebrospinal Fluid Is Associated with Increased Oxidative Stress; Front Aging Neurosci; 2016 Jul 26;8:178.; PMID: 27507943; David A Loeffler; Departments of Neurology, Beaumont Hospital-Royal Oak, Beaumont Health, Royal Oak MI, USA.

NCBI AND UNIPROT INFORMATION

NCBI GI #	18043726
NCBI GeneID	3312
UniProt Accession #	P11142; Q9H3R6
Molecular Weight	53,518 Da
NCBI Official Full Name	Heat shock 70kDa protein 8
NCBI Official Synonym Full Names	heat shock 70kDa protein 8
NCBI Official Symbol	HSPA8
NCBI Official Synonym Symbols	LAP1; HSC54; HSC70; HSC71; HSP71; HSP73; LAP-1; NIP71; HEL-33; HSPA10; HEL-S-72p
NCBI Protein Information	heat shock cognate 71 kDa protein
UniProt Protein Name	Heat shock cognate 71 kDa protein
UniProt Gene Name	HSPA8
UniProt Synonym Gene Names	HSC70; HSP73; HSPA10; LAP-1; LPS-associated protein 1
UniProt Entry Name	HSP7C_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.