

Human Heat Shock Protein 70 (HSP70) ELISA Kit | HSP70 elisa kit

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CATALOG #
AAA137312

REACTIVITY
Human

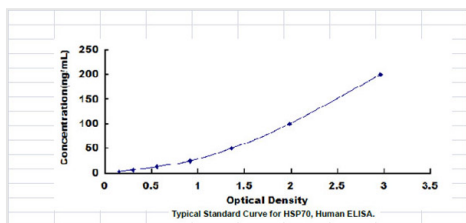
PRODUCT SYNONYMS

Heat Shock Protein 70 (HSP70); Human Heat Shock Protein 70 (HSP70) ELISA Kit; DnaK; 70 Kilodalton Heat Shock Proteins; HSP70 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of HSP70. No significant cross-reactivity or interference between HSP70 and analogues was observed.
Sequence Length	634
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	3.12-200ng/mL
Sensitivity	1.31ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level HSP70 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 HSP70 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 HSP70 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of HSP70 in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to HSP70. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to HSP70. 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 HSP70, 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 HSP70 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for HSP70 elisa kit	Tumor immunity; Infection immunity; Developmental science
References	The effect of early radiofrequency turbinate reduction, intranasal steroid, and antihistamine H-1 on persistent allergic rhinitis: a randomized clinical trial; Braz J Otorhinolaryngol; 2023 Mar-Apr;89(2):235-243.; PMID: 35659763; Nina Irawati; Department of Otorhinolaryngology Head and Neck Surgery, Faculty of Medicine Universitas Indonesia - Cipto Mangunkusumo Hospital, Jakarta, Indonesia. Electronic address: nina.irawati61@ui.ac.id.

NCBI AND UNIPROT INFORMATION

NCBI GI #	55742654
NCBI GeneID	423504
NCBI Accession #	NP_001006686.1
NCBI GenBank Nucleotide #	NM_001006685.1
UniProt Accession #	P08106
Molecular Weight	69,751 Da
NCBI Official Full Name	heat shock 70 kDa protein
NCBI Official Synonym Full Names	heat shock 70kDa protein 2
NCBI Official Symbol	HSPA2
NCBI Official Synonym Symbols	HSP70
NCBI Protein Information	heat shock 70 kDa protein
UniProt Protein Name	Heat shock 70 kDa protein
UniProt Gene Name	HSP70
UniProt Synonym Gene Names	HSP70
UniProt Entry Name	HSP70_CHICK

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.