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

Multi-species Heat Shock Protein 70 (HSP70) ELISA Kit

CATALOG #	REACTIVITY
AAA141199	**Bovine, Goat, Sheep**

PRODUCT SYNONYMS

Heat Shock Protein 70 (HSP70); Multi-species Heat Shock Protein 70 (HSP70) ELISA Kit; Bovine/Goat/Sheep Heat Shock Protein 70 (HSP70) (Sandwich ELISA) ELISA Kit; DnaK; 70 Kilodalton Heat Shock Proteins; HSP70 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Bovine, Goat, Sheep
Specificity	This assay has high sensitivity for detection of HSP70. 100% cross-reactivity of HSP70 was observed among bovine, caprine and ovine.
Sequence Length	653
Assay Type	Quantitative 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	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. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of HSP70 in serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Due to the 98% homology of the sequence among different species, the kit can be used to detect bovine, caprine and ovine samples.
Product Categories/Family for HSP70 elisa kit	Tumor immunity; Infection immunity; Developmental science

NCBI AND UNIPROT INFORMATION

NCBI GI #	15241847
NCBI GeneID	831856
NCBI Accession #	NP_195869.1
NCBI GenBank Nucleotide #	NM_120327.4
Molecular Weight	71,387 Da
NCBI Official Full Name	heat shock protein 70
NCBI Official Symbol	AT5G02490
NCBI Official Synonym Symbols	T22P11.80; T22P11_80
NCBI Protein Information	heat shock protein 70
UniProt Protein Name	Probable mediator of RNA polymerase II transcription subunit 37c
UniProt Gene Name	**MED37D**
UniProt Synonym Gene Names	HSC70-2; HSC70-G8; HSP70-2; MED37_3; AtHsc70-2; AtHsp70-2
UniProt Entry Name	MD37D_ARATH

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.

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Online datasheet: https://stage.aaabiotech.com/bovine-goat-ovine-sheep-elisa-kits/heat-shock-protein-70-hsp70/141199