

Mouse Heat shock 70 kDa protein 1A ELISA Kit | Hspa1a elisa kit

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CATALOG #
AAA98138

REACTIVITY
Mouse

PRODUCT SYNONYMS

Heat shock 70 kDa protein 1A; Mouse Heat shock 70 kDa protein 1A ELISA Kit; Hspa1a/ (Heat Shock Protein 70)/HSPA1A/HSP70/HSP72/HSPA1A/dnaK-type molecular chaperone HSP70-1/heat shock 70kD protein 1A/heat shock-induced protein/HSP70-1/HSP70-2/HSP70I/HSPA1/HSPA1B; Hspa1a elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of HSP-70. No significant cross-reactivity or interference between HSP-70 and analogues was observed.
Sequence Length	641
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	39.063-2500pg/ml
Sensitivity	23.438pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level HSP-70 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level HSP-70 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a HSP-70 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	39.062	78.125	156.25	312.5	625	1250	2500
Y	OD450	0.116	0.153	0.200	0.266	0.447	0.723	1.294	2.365

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Hspa1a elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-HSP-70 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-HSP-70 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the HSP-70 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of HSP-70 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	194248072
NCBI GeneID	3303
NCBI Accession #	NP_005336.3
NCBI GenBank Nucleotide #	NM_005345.5
Molecular Weight	63,937 Da
NCBI Official Full Name	heat shock 70 kDa protein 1A
NCBI Official Synonym Full Names	heat shock protein family A (Hsp70) member 1A
NCBI Official Symbol	HSPA1A
NCBI Official Synonym Symbols	HSP72; HSPA1; HSP70I; HSP70-1; HSP70.1; HSP70-1A; HEL-S-103
NCBI Protein Information	heat shock 70 kDa protein 1A
UniProt Protein Name	Heat shock 70 kDa protein 1A
UniProt Gene Name	HSPA1A
UniProt Synonym Gene Names	HSPA1; HSX70; HSP70.1
UniProt Entry Name	HS71A_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.

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Online datasheet: <https://stage.aaabiotech.com/hspa1a-mouse-elisa-kits/heat-shock-70-kda-protein-1a/98138>