

Bovine Heat Shock 70kDa Protein 1A (HSPA1A) ELISA Kit | HSPA1A elisa kit

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CATALOG #
AAA136973

REACTIVITY
Bovine

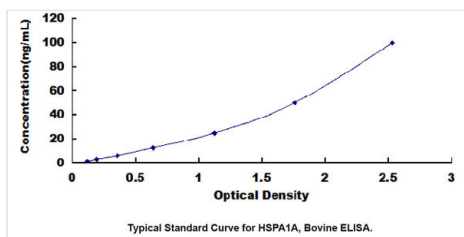
PRODUCT SYNONYMS

Heat Shock 70kDa Protein 1A (HSPA1A); Bovine Heat Shock 70kDa Protein 1A (HSPA1A) ELISA Kit; HSP70-1; HSP-A1A; HSPA1; HSP70-2; HSX70; HSPA1A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Bovine
Specificity	This assay has high sensitivity and excellent specificity for detection of HSPA1A. No significant cross-reactivity or interference between HSPA1A and analogues was observed.
Sequence Length	641
Assay Type	Quantitative Sandwich
Samples	Bovine serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	1.56-100ng/mL
Sensitivity	< 0.56ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level HSPA1A 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 HSPA1A 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 HSPA1A elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to HSPA1A. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to HSPA1A. 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 HSPA1A, 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 HSPA1A 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 HSPA1A in bovine serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for HSPA1A elisa kit	Signal transduction; Tumor immunity; Infection immunity; Developmental science

NCBI AND UNIPROT INFORMATION

NCBI GI #	119623933
NCBI GeneID	3303
UniProt Accession #	P08107; P19790; Q5JQI4; Q5SP17; Q9UQL9; Q9UQM0; B4E3B6; P0DMV8
Molecular Weight	63,937 Da
NCBI Official Full Name	heat shock 70kDa protein 1A
NCBI Official Synonym Full Names	heat shock 70kDa protein 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/bovine-ovine-elisa-kits/heat-shock-70kda-protein-1a-hspa1a/136973>