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Datasheet for ABIN625462 HSP70 ELISA Kit

1 Image

1 Publication



Overview

Quantity:	96 tests
Target:	HSP70
Reactivity:	Mouse, Rat, Human
Method Type:	Sandwich ELISA
Detection Range:	2-600 ng/mL
Minimum Detection Limit:	2 ng/mL
Application:	ELISA

Product Details

Purpose:	Human HSP70 ELISA Kit for cell culture supernatants, Heparin and/or EDTA treated plasma, and serum samples. Citrate is not recommended.
Sample Type:	Plasma, Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This ELISA antibody pair also can recognize mouse and rat HSP70
Sensitivity:	2 ng/mL
Characteristics:	 Strip plates and additional reagents allow for use in multiple experiments Quantitative protein detection Establishes normal range The best products for confirmation of antibody array data

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Product Details

Components:	Pre-Coated 96-well Strip Microplate
	• Wash Buffer
	Stop Solution
	 Assay Diluent(s)
	Lyophilized Standard
	Biotinylated Detection Antibody
	Streptavidin-Conjugated HRP
	TMB One-Step Substrate
Matarial patingludad	Distilled or deicnized water
Material not included:	Distilled or deionized water
	 Precision pipettes to deliver 2 µL to 1 µL volumes
	 Adjustable 1-25 µL pipettes for reagent preparation
	 100 µL and 1 liter graduated cylinders
	 Tubes to prepare standard and sample dilutions
	Absorbent paper
	Microplate reader capable of measuring absorbance at 450nm
	Log-log graph paper or computer and software for ELISA data analysis

Target Details

Target:	HSP70
Alternative Name:	HSP70 (HSP70 Products)
Background:	The Human HSP70 (Heat Shock Protein 70) ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of human HSP70 in serum, plasma (Collect plasma using EDTA and heparin as an anticoagulant. Citrate are not recommended), cell culture supernatants and urine. This assay employs an antibody specific for human HSP70 coated on a 96-well plate. Standards and samples are pipetted into the wells and HSP70 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-human HSP70 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of HSP70 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Reproducibility: Intra-Assay: CV<10% Inter-Assay: CV<12%.
Gene ID:	3308
UniProt:	P34932

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Application Details

Application Details	
Application Notes:	Recommended Dilution for serum and plasma samples2 fold
Sample Volume:	100 μL
Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards as instructed in the manual.
	2. Add 100 μ L of standard or sample to each well.
	3. Incubate 2.5 h at RT or O/N at 4 °C.
	4. Add 100 μ L of prepared biotin antibody to each well.
	5. Incubate 1 h at RT.
	 Add 100 μL of prepared Streptavidin solution to each well. Incubate 45 min at RT.
	8. Add 100 μL of TMB One-Step Substrate Reagent to each well.
	9. Incubate 30 min at RT.
	10. Add 50 μ L of Stop Solution to each well.
	11. Read at 450 nm immediately.
Reagent Preparation:	1. Bring all reagents and samples to room temperature (18 - 25°C) before use. 2. Sample
	dilution: If your samples need to be diluted, Assay Diluent C (Item L) is used for dilution of
	serum/plasma/culture supernatants/urine. 3. Assay Diluent B (Item E) should be diluted 5-fold
	with deionized or distilled water before use. 4. Preparation of standard: Briefly spin the vial of
	Item C. Add 400 μI Assay Diluent C (Item L) into Item C vial to prepare a 600 ng/ml standard
	solution. Dissolve the powder thoroughly by a gentle mix. Pipette 400 μ l Assay Diluent C into
	each tube. Use the 600 ng/ml standard solution to produce a dilution series (shown below). Mi
	each tube thoroughly before the next transfer. Gently vortex to mix. Assay Diluent C serves as
	the zero standard (0 ng/ml). 5. If the Wash Concentrate (20x) (Item B) contains visible crystals,
	warm to room temperature and mix gently until dissolved. Dilute 20 ml of Wash Buffer
	Concentrate into deionized or distilled water to yield 400 ml of 1x Wash Buffer. 6. Briefly spin
	the Detection Antibody vial (Item F) before use. Add 100 μI of 1x Assay Diluent B (Item E) into
	the vial to prepare a detection antibody concentrate. Pipette up and down to mix gently (the
	concentrate can be stored at 4°C for 5 days). The detection antibody concentrate should be
	diluted 80-fold with 1x Assay Diluent B and used in step 4 of Part VI Assay Procedure. 7. Briefly
	spin the HRP-Streptavidin concentrate vial (Item G) and pipette up and down to mix gently
	before use. HRP-Streptavidin concentrate should be diluted 25,000-fold with 1x Assay Diluent E
	(Item E). For example: Briefly spin the vial (Item G) and pipette up and down to mix gently . Add
	2 μl of HRP-Streptavidin concentrate into a tube with 198.0 μl 1x Assay Diluent B to prepare a
	100-fold diluted HRP-Streptavidin solution (do not store the diluted solution for next day use).

Mix through and then pipette 40 µl of prepared 100-fold diluted solution into a tube with 10 ml 1x Assay Diluent B to prepare a final 25,000 fold diluted HRP-Streptavidin solution.

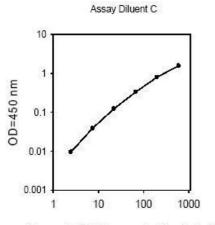
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Application Details

Assay Procedure:	1. Bring all reagents and samples to room temperature (18 - 25° C) before use. It is
	recommended that all standards and samples be run at least in duplicate. 2. Add 100 μ l of each
	standard (see Reagent Preparation step 2) and sample into appropriate wells. Cover well and
	incubate for 2.5 hours at room temperature or over night at 4°C with gentle shaking. 3. Discard
	the solution and wash 4 times with 1x Wash Solution. Wash by filling each well with Wash
	Buffer (300 μ l) using a multi-channel Pipette or autowasher. Complete removal of liquid at each
	step is essential to good performance. After the last wash, remove any remaining Wash Buffer
	by aspirating or decanting. Invert the plate and blot it against clean paper towels. 4. Add 100 μ l
	of 1x prepared biotinylated antibody (Reagent Preparation step 6) to each well. Incubate for 1
	hour at room temperature with gentle shaking. 5. Discard the solution. Repeat the wash as in
	step 3. 6. Add 100 μl of prepared Streptavidin solution (see Reagent Preparation step 7) to each
	well. Incubate for 45 minutes at room temperature with gentle shaking. 7. Discard the solution.
	Repeat the wash as in step 3. 8. Add 100 μI of TMB One-Step Substrate Reagent (Item H) to
	each well. Incubate for 30 minutes at room temperature in the dark with gentle shaking. 9. Add
	50 μl of Stop Solution (Item I) to each well. Read at 450 nm immediately.
Calculation of Results:	Calculate the mean absorbance for each set of duplicate standards, controls and samples, and
	subtract the average zero standard optical density. Plot the standard curve on log-log graph
	paper or using Sigma plot software, with standard concentration on the x-axis and absorbance
	on the y-axis. Draw the best-fit straight line through the standard points.
Restrictions:	For Research Use only
Handling	
Storage:	-20 °C
Storage Comment:	The entire kit may be stored at -20°C for up to 1 year from the date of shipment. Avoid repeated
	freeze-thaw cycles. The kit may be stored at 4°C for up to 6 months. For extended storage, it is
	recommended to store at -80°C.
Expiry Date:	6 months
Publications	
Product cited in:	Pei, Pan, Zhu, Ding, Liu, Lv, Zou, Luo: "Gemcitabine-treated pancreatic cancer cell medium
	induces the specific CTL antitumor activity by stimulating the maturation of dendritic cells." in:
	International immunopharmacology Vol 10 Jacua 1 pp. 10-6 (2014) (PubMod)

International immunopharmacology, Vol. 19, Issue 1, pp. 10-6, (2014) (PubMed).

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Human HSP70 concentration (ng/ml)

El	.ISA

Image 1.

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