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Datasheet for ABIN625127 HGF ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	HGF
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Mouse HGF ELISA Kit for cell and tissue lysate samples.			
Sample Type:	Cell Lysate, Tissue Lysate			
Analytical Method:	Quantitative			
Detection Method:	Colorimetric			
Specificity:	The antibody pair provided in this kit recognizes mouse HGF.			
Sensitivity:	400 pg/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 			
Components:	 Pre-Coated 96-well Strip Microplate Wash Buffer Stop Solution Assay Diluent(s) 			

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	 Lyophilized Standard Biotinylated Detection Antibody Streptavidin-Conjugated HRP TMB One-Step Substrate
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 Cell lysate buffer

Target Details

Target: HGF			
Alternative Name:	HGF (HGF Products)		
Background:	The Mouse HGF (Hepatocyte Growth Factor) ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of mouse HGF cell lysate and tissue lysate. This assay employs an antibody specific for mouse HGF coated on a 96-well plate. Standards and samples are pipetted into the wells and HGF present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-mouse HGF 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 HGF 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:	15234		
UniProt:	Q08048		
Pathways:	RTK Signaling, Carbohydrate Homeostasis, Glycosaminoglycan Metabolic Process, Synaptic Membrane, Signaling of Hepatocyte Growth Factor Receptor		
Application Details			

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Application Details

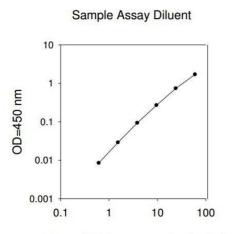
Plate:	Pre-coated			
Protocol:	1. Prepare all reagents, samples and standards as instructed in the manual.			
	2. Add 100 μ L of standard or sample to each well.			
	3. Incubate 2.5 h at RT or O/N at 4 °C.			
	4. Add 100 μ L of prepared biotin antibody to each well.			
	5. Incubate 1 h at RT.			
	6. Add 100 μL of prepared Streptavidin solution to each well. 7. 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 μL 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: Tissue lysate and cell lysate sample should be diluted at least 5-fold with 1x			
	Sample Diluent Buffer.			
	3. Sample Diluent Buffer (Item D) and Assay Diluent (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 and then add 400 μ L 1x Sample Diluen			
	Buffer into Item C vial to prepare a 60 ng/mL standard. Dissolve the powder thoroughly by a			
	gentle mix. Pipette 240 μ L Sample Diluent Buffer into each tube. Use the 60 ng/mL standard			
	solution to produce a dilution series . Mix each tube thoroughly before the next transfer. Sample			
	Diluent Buffer serves as the zero standard (0 ng/mL). Item C vial + 400 μ L 160 μ L 160 μ L 160			
	μL 160 μL 160myl 60 24 9.6 3.84 1.536 0.614 0 ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL			
	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 μ L of 1x Assay Diuent			
	into the vial to prepare a detection antibody concentrate. Pipette up and down to mix gently (th			
	concentrate can be stored at 4 °C for 5 days). The detection antibody concentrate should be			
	diluted 80-fold with 1x Assay Diuent and used in step 4 of Part VI Assay Procedure.			
	7. Briefly spin the HRP-Streptavidin concentrate vial (Item G) before use. HRP-Streptavidin			
	Concentrate should be diluted 500-fold with 1x Assay Diuent. For example: Briefly spin the vial			
	(Item G) and pipette up and down to mix gently . Add 20 μ L of HRP-Streptavidin concentrate			
	into a tube with 10 m µL 1x Assay Diluent to prepare a 500-fold diluted HRP-Streptavidin			
	solution (don't store the diluted solution for next day use). Mix well.			
	8. Cell lysate buffer should be diluted 2-fold with deionized or distilled water (for cell lysate and			

	tissue lysate).
Assay Procedure:	1. Bring all reagents and samples to room temperature (18 - 25 $^\circ$ 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 $^\circ$ C with
	gentle shaking. We recommend using 50-500 myg/mL of total protein for lysate sample. The
	amount of sample used depends on the abundance of target protein. More of the sample can
	be used if signals are too weak. If signals are too strong, the sample can be diluted further.
	3. Discard the solution and wash 4 times with 1x Wash Solution. Wash by filling each well with
	Wash Buffer (300 myl) 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 µL 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
	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
	8. Add 100 μ L 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.
	Typical Data: These standard curves are for demonstration only. A standard curve must be run
	with each assay. Sample Assay Diluent Mouse HGF concentration (ng/mL) 0.1 1 10 100 O D =4
	50 n m 0.001 0.01 0.1 1 10
	Sensitivity: The minimum detectable dose of HGF is typically less than 400 pg/mL.
	Recovery: Recovery was determined by spiking various levels of mouse HGF into mouse tissue
	lysate and cell lysate. Mean recoveries are as follows: Sample Type Average % Recovery Range
	(%) Tissue lysate 120.2 110-130 Cell lysate 114.4 100-134
	Linearity: Sample Type Tissue Cell Lysate lysate 1:2 Average % of 118.9 139.4 Expected Range
	%) 109-125 130-143 1:4 Average % of 132.4 129.2 Expected Range (%) 120-144 120-137
	Reproducibility: Intra-Assay: CV<10 % Inter-Assay: CV<12 %

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Application Details					
Assay Precision:	Intra-Assay: CV< 10 % Inter-Assay: CV< 12 %				
Restrictions:	For Research Use only				
Handling					
Handling Advice:	Avoid repeated freeze-thaw cycles.				
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				

Images



Mouse HGF concentration (ng/ml)

ELISA		
lmage 1.		

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