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Datasheet for ABIN625387 Epiregulin ELISA Kit

Image



#### Overview

Quantity:	96 tests
Target:	Epiregulin (EREG)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	10-6000 pg/mL
Minimum Detection Limit:	10 pg/mL
Application:	ELISA

### Product Details

Purpose:	Mouse Epiregulin ELISA Kit for cell culture supernatants, plasma, and serum samples.
Sample Type:	Serum, Plasma, Cell Culture Supernatant
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This ELISA kit shows no cross-reactivity with the following cytokines tested: Mouse CD30, L
	CD30, T CD40, CRG-2, CTACK, CXCL16, Eotaxin , Eotaxin-2, Fas Ligand, Fractalkine, GCSF, GM
	CFS, IFN- gamma, IGFBP-3, IGFBP-5, IGFBP-6, IL-1 alpha, IL-1 beta, IL-2, IL-3, IL-3 Rb, IL-4, IL-5,
	IL-9, IL-10, IL-12 p40/p70, IL-12 p70, IL-13, IL-17, KC, Leptin R, LEPTIN(OB), LIX, L-Selectin,
	Lymphotactin, MCP-1, MCP- 5, M-CSF, MIG, MIP-1 alpha, MIP-1 gamma, MIP-2, MIP-3 beta,
	MIP-3 alpha, PF-4, PSelectin, RANTES, SCF, SDF-1 alpha, TARC, TCA-3, TECK, TIMP-1, TNF-
	alpha, TNF RI, TNF RII, TPO, VCAM-1, VEGF.
Sensitivity:	< 10 pg/mL

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#### Product Details

Target Details

Characteristics:	<ul> <li>Strip plates and additional reagents allow for use in multiple experiments</li> <li>Quantitative protein detection</li> <li>Establishes normal range</li> <li>The best products for confirmation of antibody array data</li> </ul>
Components:	<ul><li>Pre-Coated 96-well Strip Microplate</li><li>Wash Buffer</li></ul>
	Stop Solution
	Assay Diluent(s)
	Lyophilized Standard
	Biotinylated Detection Antibody
	Streptavidin-Conjugated HRP
	TMB One-Step Substrate
Material not included:	Distilled or deionized water
	<ul> <li>Precision pipettes to deliver 2 µL to 1 µL volumes</li> </ul>
	<ul> <li>Adjustable 1-25 µL pipettes for reagent preparation</li> </ul>
	<ul> <li>100 µL and 1 liter graduated cylinders</li> </ul>
	Tubes to prepare standard and sample dilutions
	Absorbent paper
	Microplate reader capable of measuring absorbance at 450nm
	<ul> <li>Log-log graph paper or computer and software for ELISA data analysis</li> </ul>

Target:	Epiregulin (EREG)
Alternative Name:	Epiregulin (EREG Products)
Background:	The Mouse Epiregulin ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-
	linked immunosorbent assay for the quantitative measurement of mouse Epiregulin in serum,
	plasma and cell culture supernatants. This assay employs an antibody specific for mouse
	Epiregulin coated on a 96-well plate. Standards and samples are pipetted into the wells and
	Epiregulin present in a sample is bound to the wells by the immobilized antibody. The wells are
	washed and biotinylated anti-mouse Epiregulin 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 Epiregulin 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:	13874

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#### Target Details

UniProt:	Q61521
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin
	Signaling Pathway, Regulation of Muscle Cell Differentiation

## 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 $\mu$ L of standard or sample to each well.
	3. Incubate 2.5 h at RT or O/N at 4 °C.
	4. Add 100 $\mu$ L of prepared biotin antibody to each well.
	5. Incubate 1 h at RT.
	6. Add 100 $\mu$ L 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: Assay Diluent A (Item D) should be used for dilution of serum/plasma
	samples. Assay Diluent B (Item E) should be used for dilution of cell culture supernatant
	sample. Suggested dilution for normal serum/plasma: 2 fold*. * Please note that levels of the
	target protein may vary between different specimens. Optimal dilution factors for each sample
	must be determined by the investigator.
	3. Assay Diluent B 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 $\mu L$ Assay Diluent A
	(for serum/plasma samples) or 1x Assay Diluent B (for cell culture supernates) into Item C vial
	to prepare a 50 ng/mL standard. Dissolve the powder thoroughly by a gentle mix. Add 60 $\mu$ L
	Epiregulin standard (50 ng/mL) from the vial of Item C, into a tube with 440 $\mu$ L Assay Diluent A
	or 1x Assay Diluent B to prepare a 6,000 pg/mL standard solution. Pipette 400 $\mu$ L Assay Diluen
	A or 1x Assay Diluent B into each tube. Use the 6,000 pg/mL standard solution to produce a
	dilution series . Mix each tube thoroughly before the next transfer. Assay Diluent A or 1x Assay
	Diluent B serves as the zero standard (0 pg/mL). 60 $\mu$ L standard + 440 $\mu$ L 200 $\mu$ L 200 $\mu$ L 200 $\mu$
	200 µL 200 µL 200myl 6000 2000 666.7 222.2 74.07 24.69 8.23 0 pg/mL pg/mL pg/mL pg/mL

pg/mL pg/mL pg/mL pg/mL

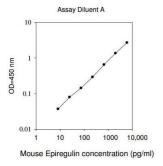
5. If the Wash Concentrate (20x) (Item B) contains visible crystals, warm to room temperature and mix gently until dissolved. Dilute 20 ml of Wash Buffer Concentrate into deionized or distilled water to yield 400 ml of 1x Wash Buffer.

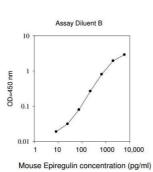
6. Briefly spin the Detection Antibody vial (Item F) before use. Add 100 μL of 1x Assay Diluent B into the vial to prepare a detection antibody concentrate. Pipette up and down to mix gently (the concentrate can be stored at 4 °C for 5 days). The detection antibody concentrate should be diluted 80-fold 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 300-fold with 1x Assay Diluent B. For example: Briefly spin the vial (Item G) and pipette up and down to mix gently . Add 40 μL of HRP-Streptavidin concentrate into a tube with 12 ml 1x Assay Diluent B to prepare a 300 fold diluted HRP- Streptavidin solution (don't store the diluted solution for next day use). Mix well.

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 $\mu$ 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 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 $\mu$ 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
	6. Add 100 $\mu$ L 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 $\mu$ 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 $\mu L$ 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

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	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. Assay Diluent A Mouse Epiregulin concentration (pg/mL) O D =4 50 n m 0.01
	0.1 1 10 1 10 100 1000 10,000 Assay Diluent B Mouse Epiregulin concentration (pg/mL) O D =4
	50 n m 0.01 0.1 1 10 1 10 100 1000 10,000
	Sensitivity: The minimum detectable dose of Epiregulin is typically less than 10 pg/mL.
	Recovery: Recovery was determined by spiking various levels mouse Epiregulin into mouse
	serum, plasma and cell culture media. Mean recoveries are as follows: Sample Type Average $\%$
	Recovery Range ( %) Serum 74.19 68-89 Plasma 73.94 67-90 Cell culture media 102.6 94-110
	Linearity: Sample Type Serum Plasma Cell Culture Media 1:2 Average % of Expected 124.0
	123.5 77.67 Range ( %) 113-136 112-130 68-87 1:4 Average % of Expected 95.66 119.0 75.32
	Range (%) 86-104 108-137 67-86
	Reproducibility: Intra-Assay: CV<10 % Inter-Assay: CV<12 %
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





ELISA

Image 1.

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