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Datasheet for ABIN625448 FASL ELISA Kit

1 Image

1 Publication



Overview

Quantity:	96 tests
Target:	FASL
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	90-60000 pg/mL
Minimum Detection Limit:	90 pg/mL
Application:	ELISA

Product Details

Purpose:	Rat Fas Ligand (TNFSF6) ELISA Kit for cell culture supernatants, plasma, and serum samples.
Sample Type:	Plasma, Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This ELISA kit shows no cross-reactivity with the following cytokines tested: rat CINC-2, CINC-3, CNTF, Fractalkine, IL-1 alpha, IL-1 beta, IL-4, IL-6, IL-10, GM-CSF, IFN-gamma, Leptin, Lix, MCP-1, MIP-3 alpha, beta- NGF, TIMP-1, TNF-alpha.
Cross-Reactivity (Details):	This ELISA kit shows no cross-reactivity with the following cytokines tested: rat CINC-2, CINC-3, CNTF, Fractalkine, IL-1alpha, IL-1beta, IL-4, IL-6, IL-10, GM-CSF, IFN-gamma, Leptin, Lix, MCP-1, MIP-3alpha, beta- NGF, TIMP-1, TNF-alpha.
Sensitivity:	< 90 pg/mL

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Product Details

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
	The best products for committation of antibody array data
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
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

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Target:	FASL
Alternative Name:	Fas Ligand (FASL Products)
Background:	Tumor necrosis factor ligand superfamily member 6 (CD95 ligand) (CD95-L) (Fas antigen ligand) (Fas ligand) (FasL) (CD antigen CD178)
Gene ID:	25385
UniProt:	P36940
Pathways:	Apoptosis, EGFR Signaling Pathway, Production of Molecular Mediator of Immune Response, Positive Regulation of Endopeptidase Activity

Application Details

Target Details

Application Notes:	Recommended Dilution for serum and plasma samples2 fold
Sample Volume:	100 µL

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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 μ L 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 C (Item L) should be used for dilution of serum/plasma
	samples. 1x Assay Diluent B (Item E) should be used for dilution of cell culture supernates.
	RayBio®Rat Fas L ELISA Kit Protocol 3 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 666 μ L Assay Diluent C
	(for serum/plasma samples) or 1x Assay Diluent B (for cell culture supernates) into Item C vial
	to prepare a 60 ng/mL standard. Dissolve the powder thoroughly by a gentle mix. Pipette 240
	µL Assay Diluent C or 1x Assay Diluent B into each tube. Use the 60,000 pg/mL standard
	solution to produce a dilution series . Mix each tube thoroughly before the next transfer. Assay
	Diluent C or 1x Assay Diluent B serves as the zero standard (0 pg/mL). 200 μL 200 μL 200 μL
	200 μL 200 μL Item C, standard vial + 666 μL 200myl 60,000 20,000 6667 2222 740.7 246.9
	82.30 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. RayBio®Rat Fas L ELISA Kit Protocol 4
	6. Briefly spin the Detection Antibody vial (Item F) before use. Add 100 μ L 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 160-fold with 1x Assay
	Diluent B. For example: Briefly spin the vial (Item G) and pipette up and down to mix gently . Add

Application Details	
	75 μL of HRP-Streptavidin concentrate into a tube with 12 ml 1x Assay Diluent B to prepare a 160-fold diluted HRP- Streptavidin solution (don't store the diluted solution for next day use). Mix well.
Assay Procedure:	 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. Add 100 µL 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. 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.
	 RayBio®Rat Fas L ELISA Kit Protocol 5 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 µL 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. <u>Typical Data</u>: These standard curves are for demonstration only. A standard curve must be run with each assay. Rat Fas L concentration (pg/mL) O D =4 50 (n m) 0.001 0.01 0.1 1 10 10 100 1,000 10,000 100,000 Assay Diluent C Rat Fas L concentration (pg/mL) O D =4 50 (n m) 0.001 0.01 0.1 1 10 10 100 1.01 0.1 1 10 10 100 10

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Application Details

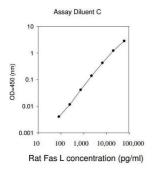
	Linearity: Sample Type Serum Plasma Cell Culture Media 1:2 Average % of Expected 105.1
	111.1 114.7 Range (%) 95-114 106-118 105-122 1:4 Average % of Expected 98.81 108.6 113.2
	Range (%) 97-107 97-115 104-120
	<u>Reproducibility:</u> Intra-Assay: CV<10 % Inter-Assay: CV<12 % RayBio®Rat Fas L ELISA Kit
	Protocol 8
Assay Precision:	Intra-Assay: CV< 10 % Inter-Assay: CV< 12 %
Restrictions:	For Research Use only

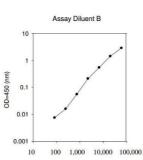
Handling

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
Publications	
Product cited in:	Meireles, Marques, Norberto, Fernandes, Mateus, Rendeiro, Spencer, Faria, Calhau: "The impact of chronic blackberry intake on the neuroinflammatory status of rats fed a standard or high-fat

diet." in: **The Journal of nutritional biochemistry**, Vol. 26, Issue 11, pp. 1166-73, (2015) (PubMed).

Hanaoka, Nicolls, Fontenot, Kraskauskas, Mack, Kratzer, Salys, Kraskauskiene, Burns, Voelkel, Taraseviciene-Stewart: "Immunomodulatory strategies prevent the development of autoimmune emphysema." in: **Respiratory research**, Vol. 11, pp. 179, (2010) (PubMed).





Rat Fas L concentration (pg/ml)

ELISA

Image 1.

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