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CCL5 ELISA Kit





Publications



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Quantity:	96 tests
Target:	CCL5
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	1-200 pg/mL
Minimum Detection Limit:	1 pg/mL
Application:	ELISA

Product Details

2	M. DANITES (SOLE) FLIGATOR (C. H.	
Purpose:	Mouse RANTES (CCL5) 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: 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, SCF, SDF-1 alpha, TARC, TCA-3, TECK, TIMP-1, TNF-alpha, TNF RI,	
	TNF RII, TPO, VCAM-1, VEGF.	
Sensitivity:	1 pg/mL	

Product Details

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
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

• Microplate reader capable of measuring absorbance at 450nm

• Log-log graph paper or computer and software for ELISA data analysis

Absorbent paper

Target Details

Target:	CCL5
Alternative Name:	RANTES / CCL5 (CCL5 Products)
Background:	C-C motif chemokine 5 (MuRantes) (SIS-delta) (Small-inducible cytokine A5) (T-cell-specific protein RANTES)
Gene ID:	20304
UniProt:	P30882
Pathways:	Cellular Response to Molecule of Bacterial Origin, Regulation of G-Protein Coupled Receptor Protein Signaling, Smooth Muscle Cell Migration
Application Details	
Application Notes:	Recommended Dilution for serum and plasma samples3 - 30 fold
Sample Volume:	100 μL

Protocol:

1. Prepare all reagents, samples and standards as instructed in the manual.
2. Add 100 μL of standard or sample to each well.
3. Incubate 2.5 h at RT or O/N at 4 °C.
4. Add 100 μL 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: Assay Diluent A (Item D) is used for dilution of serum/plasma samples, Assay Diluent C (Item L) can be used for dilution of cell culture supernates. 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 µl Assay Diluent A (for serum/plasma samples) or Assay Diluent C (for cell culture supernates) into Item C vial to prepare a 50 ng/ml standard. Dissolve the powder thoroughly by a gentle mix. Add 4 µl RANTES standard (50 ng/ml) from the vial of Item C, into a tube with 996 µl Assay Diluent A or Assay Diluent C to prepare a 200 pg/ml standard solution. Pipette 300 µl Assay Diluent A or Assay Diluent C into each tube. Use the 200 pg/ml standard solution to produce a dilution series (shown below). Mix each tube thoroughly before the next transfer. Gently vortex to mix. Assay Diluent A or Assay Diluent C serves as the zero standard (0 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 10,000-fold with 1x Assay Diluent B. For example: Briefly spin the vial (Item G) and pipette up and down to mix gently . Add $2 \mu l$ of HRP-Streptavidin concentrate into a tube with 198 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 100 µl of prepared 100-fold diluted solution into a tube with 10 ml 1x Assay Diluent B to prepare a final 10,000 fold diluted HRP-Streptavidin solution.

Assay Proced	ure:
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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 ($300 \, \mu l$) 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 $100 \, \mu l$ 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 3. 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 3. 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 $100 \, \mu l$ 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 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:

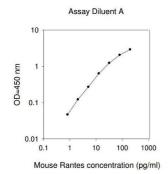
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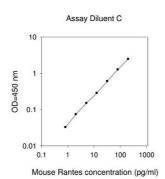
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Images





ELISA

Image 1.