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Datasheet for ABIN7491570 **CCR8 Protein**

3 Images



Overview

| Quantity: | 100 µg |
|---------------|--------------------|
| Target: | CCR8 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Synthetic Nanodisc |

Product Details

| Purpose: | Human CCR8 full length protein-synthetic nanodisc |
|------------------|---|
| Characteristics: | Unlike other membrane scaffold protein (MSP) Nanodisc on the market, our synthetic Nanodisc |
| | can be prepared directly from the cells. The polymers used during this process have a dual |
| | function. It dissolves the cell membranes, like the detergent, and uses cellular phospholipids to |
| | form Nanodisc around the membrane proteins. The target protein embedded Nanodiscs can |
| | then be purified. |

Target Details

| Target: | CCR8 |
|-------------------|--|
| Alternative Name: | CCR8 (CCR8 Products) |
| Background: | A member of the beta chemokine receptor family, which is predicted to be a seven |
| | transmembrane protein similar to G protein-coupled receptors. Chemokines and their receptors |
| | are important for the migration of various cell types into the inflammatory sites. This receptor |
| | protein preferentially expresses in the thymus. I-309,thymus activation-regulated cytokine |
| | (TARC) and macrophage inflammatory protein-1 beta (MIP-1 beta) have been identified as |

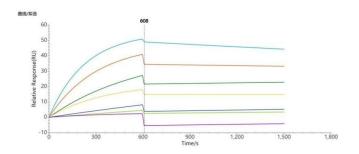
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| | ligands of this receptor. Studies of this receptor and its ligands suggested its role in regulation |
|-------------------|---|
| | of monocyte chemotaxis and thymic cell apoptosis. More specifically, this receptor may |
| | contribute to the proper positioning of activated T cells within the antigenic challenge sites and |
| | specialized areas of lymphoid tissues. This gene is located at the chemokine receptor gene |
| | cluster region. |
| Molecular Weight: | The human full length CCR8 Protein has a MW of 40.7 kDa |
| UniProt: | P51685 |

Application Details

| Comment: | Advantages of Synthetic Nanodiscs: |
|------------------|--|
| | Highly purified membrane proteins |
| | High solubility in aqueous solutions |
| | High stability |
| | Proteins are in a native membrane environment and remain biologically active |
| | No detergent and can be used for cell-based assays |
| | No MSP backbone proteins |
| | Limitations of Synthetic Nanodiscs: |
| | Intolerant to acids and high concentrations of divalent metal ions |
| Restrictions: | For Research Use only |
| Handling | |
| Format: | Lyophilized |
| Buffer: | Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). |
| | Normally 5 % - 8 % trehalose is added as protectants before lyophilization. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for |
| | use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). |
| | Lyophilized proteins are shipped at ambient temperature. |
| Expiry Date: | 12 months |

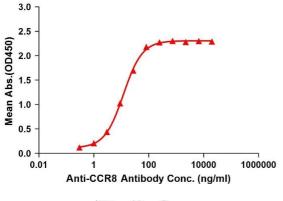
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Surface Plasmon Resonance

Image 1. Human -Nanodisc can bind Anti- antibody (ABIN7478011 and ABIN7490961) with an affinity constant of 1.408 nM as determined in a SPR assay.

ELISA assay to evaluate CCR8-Nanodisc 0.2µg Human CCR8-Nanodisc per well



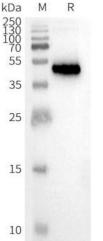


Image 2. Elisa plates were pre-coated with Flag Tag -Nanodisc (0.2 µg/per well). Serial diluted anti- monoclonal antibody (ABIN7478011 and ABIN7490961) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for antimonoclonal antibody binding with -Nanodisc is 12.07 ng/mL.

Western Blotting

ELISA

Image 3. WB analysis of Human -Nanodisc with antimonoclonal antibody (ABIN7478011 and ABIN7490961) at $1 \mu g/mL$, followed by Goat Anti-Human IgG HRP at 1/5000 dilution

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