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Datasheet for ABIN7491568 CCR7 Protein

2 Images



## Overview

Quantity:	100 µg
Target:	CCR7
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc

## **Product Details**

Purpose:	Human CCR7 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:	CCR7
Alternative Name:	CCR7 (CCR7 Products)
Background:	The protein is a member of the G protein-coupled receptor family. This receptor was identified
	as a gene induced by the Epstein-Barr virus (EBV), and is thought to be a mediator of EBV
	effects on B lymphocytes. This receptor is expressed in various lymphoid tissues and activates
	B and T lymphocytes. It has been shown to control the migration of memory T cells to inflamed
	tissues, as well as stimulate dendritic cell maturation. The chemokine (C-C motif) ligand 19

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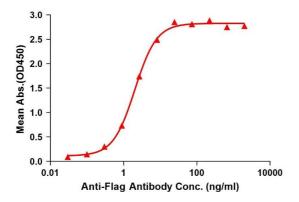
	(CCL19/ECL) has been reported to be a specific ligand of this receptor. Signals mediated by this
	receptor regulate T cell homeostasis in lymph nodes, and may also function in the activation
	and polarization of T cells, and in chronic inflammation pathogenesis.
Molecular Weight:	The human full length CCR7 protein has a MW of 42.9 kDa
UniProt:	P32248
Pathways:	Regulation of Actin Filament Polymerization, Positive Regulation of Immune Effector Process

## 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
	Lyophilized Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0).
Format:	
Format:	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0).
Format: 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.
Format: Buffer: Storage:	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. -20 °C,-80 °C
Format: Buffer: Storage:	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. -20 °C,-80 °C Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for



#### ELISA assay to evaluate CCR7-Nanodisc 0.2µg Human CCR7-Nanodisc per well



## SDS-PAGE

Image 1. Human -Nanodisc, Flag Tag on SDS-PAGE

### ELISA

**Image 2.** Elisa plates were pre-coated with Flag Tag -Nanodisc (0.2 µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with -Nanodisc is 2.044 ng/mL.

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