# ANTIBODIES ONLINE

Datasheet for ABIN7491572 **CCR9 Protein** 

2 Images



### Overview

Quantity:	100 µg
Target:	CCR9
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc

## **Product Details**

Purpose:	Human CCR9 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:	CCR9
Alternative Name:	CCR9 (CCR9 Products)
Background:	The protein is a G protein-coupled receptor with seven transmembrane domains that belongs
	to the beta chemokine receptor family. Chemokines and their receptors are key regulators of
	thymocyte migration and maturation in normal and inflammation conditions. This gene is
	differentially expressed in T lymphocytes of the small intestine and colon, and its interaction
	with chemokine 25 contributes to intestinal intra-epithelial lymphocyte homing to the small

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	intestine. This suggests a role for this gene in directing immune responses to different
	segments of the gastrointestinal tract. This gene and its exclusive ligand, chemokine 25, are
	overexpressed in a variety of malignant tumors and are closely associated with tumor
	proliferation, apoptosis, invasion, migration and drug resistance. This gene maps to the
	chemokine receptor gene cluster.
Molecular Weight:	The human full length CCR9 protein has a MW of 42.0 kDa
UniProt:	P51686

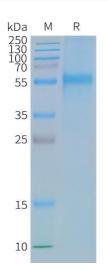
## Application Details

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 fo
	use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).
	Lyophilized proteins are shipped at ambient temperature.

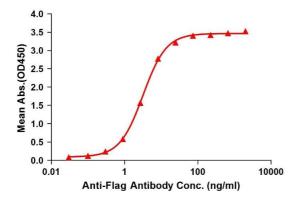
Expiry Date:

12 months

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#### ELISA assay to evaluate CCR9-Nanodisc 0.2µg Human CCR9-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 3.205 ng/mL.

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