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Datasheet for ABIN7491555 **CCR1 Protein**

2 Images



Overview

Quantity:	100 µg
Target:	CCR1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc

Product Details

Purpose:	Human CCR1 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

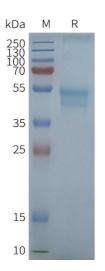
Target:	CCR1
Alternative Name:	CCR1 (CCR1 Products)
Background:	A member of the beta chemokine receptor family, which is predicted to be a seven
	transmembrane protein similar to G protein-coupled receptors. The ligands of this receptor
	include macrophage inflammatory protein 1 alpha (MIP-1 alpha), regulated on activation normal
	T expressed and secreted protein (RANTES), monocyte chemoattractant protein 3 (MCP-3), and
	myeloid progenitor inhibitory factor-1 (MPIF-1). Chemokines and their receptors mediated

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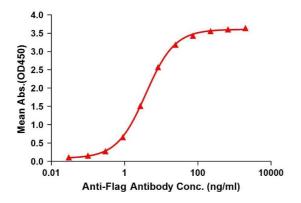
	signal transduction are critical for the recruitment of effector immune cells to the site of
	inflammation. Knockout studies of the mouse homolog suggested the roles of this gene in host
	protection from inflammatory response, and susceptibility to virus and parasite. This gene and
	other chemokine receptor genes, including CCR2, CCRL2, CCR3, CCR5 and CCXCR1, are found
	to form a gene cluster on chromosome 3p.
Molecular Weight:	The human full length CCR1 protein has a MW of 41.2 kDa
UniProt:	P32246

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



ELISA assay to evaluate CCR1-Nanodisc 0.2µg Human CCR1-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 3.825 ng/mL.

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