

Datasheet for ABIN7563394
CCR2 Protein (AA 1-373) (His tag)



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Overview

Quantity:	1 mg
Target:	CCR2
Protein Characteristics:	AA 1-373
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCR2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Ccr2 Protein expressed in mammalian cells.
Sequence:	<p>MEDNNMLPQF IHGILSTSHS LFTRSIQELD EGATTPYDYG DGEPCHKTSV KQIGAWILPP LYSLVFIFGF VGNMLVIII IGCKKLKSMY DIYLLNLAIS DLLFLLTLPF WAHYAANEWV FGNIMCKVFT GLYHIGYFGG IFFIILLTID RYLAIVHAVF ALKARTVTFG VITSVVTWVV AVFASLPGII FTKSKQDDHH YTCGPYFTQL WKNFQTIMRN ILSLILPLL MVICYSGILH TLFRCRNEKK RHRAVRLIFA IMIVYFLFWT PYNIVLFLTT FQESLGMSNC VIDKHLDQAM QVTETLGMTH CCINPVIYAF VGEKFRRYLS IFFRKHIAGR LCKQCPVFYR ETADRVSSSTF TPSTGEQEVV VGL</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris Page, Western Blot

Grade: custom-made

Target Details

Target: CCR2

Alternative Name: Ccr2 ([CCR2 Products](#))

Background: C-C chemokine receptor type 2 (C-C CKR-2) (CC-CKR-2) (CCR-2) (CCR2) (JE/FIC receptor) (MCP-1 receptor) (CD antigen CD192),FUNCTION: Key functional receptor for CCL2 but can also bind CCL7 and CCL12 chemokines (PubMed:8631787, PubMed:8662823, PubMed:8996246). Its binding with CCL2 on monocytes and macrophages mediates chemotaxis and migration induction through the activation of the PI3K cascade, the small G protein Rac and lamellipodium protrusion (By similarity). Also acts as a receptor for the beta-defensin DEFB106A/DEFB106B (By similarity). Regulates the expression of T-cell inflammatory cytokines and T-cell differentiation, promoting the differentiation of T-cells into T-helper 17 cells (Th17) during inflammation (PubMed:28507030). Facilitates the export of mature thymocytes by enhancing directional movement of thymocytes to sphingosine-1-phosphate stimulation and up-regulation of S1P1R expression, signals through the JAK-STAT pathway to regulate FOXO1 activity leading to an increased expression of S1P1R (PubMed:29930553). Plays an important role in mediating peripheral nerve injury-induced neuropathic pain (PubMed:29993042). Increases NMDA-mediated synaptic transmission in both dopamine D1 and D2 receptor-

Target Details

containing neurons, which may be caused by MAPK/ERK-dependent phosphorylation of GRIN2B/NMDAR2B (PubMed:29993042). Mediates the recruitment of macrophages and monocytes to the injury site following brain injury (PubMed:24806994, PubMed:29632244). {ECO:0000250|UniProtKB:P41597, ECO:0000269|PubMed:24806994, ECO:0000269|PubMed:28507030, ECO:0000269|PubMed:29632244, ECO:0000269|PubMed:29930553, ECO:0000269|PubMed:29993042, ECO:0000269|PubMed:8631787, ECO:0000269|PubMed:8662823, ECO:0000269|PubMed:8996246}.

Molecular Weight:	42.8 kDa
UniProt:	P51683
Pathways:	cAMP Metabolic Process , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months