Datasheet for ABIN7320483

CCL2 Protein

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Overview

Quantity:	50 µg
Target:	CCL2
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Mouse CCL2/MCP-1 Protein
Sequence:	Gln24-Arg96
Characteristics:	Recombinant Mouse C-C motif Chemokine 2 is produced by our E.coli expression system and the target gene encoding Gln24-Arg96 is expressed.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	CCL2
Alternative Name:	CCL2/MCP-1 (CCL2 Products)
Background:	Background: C-C motif chemokine 2 (CCL2) is a member of the C-C or β chemokine family. Mouse CCL2 shares 82 % amino acid (aa) identity with rat CCL2 over the entire sequence, and 58 %, 56 %, 55 %, 53 % and 53 % aa identity with human, equine, porcine, bovine and canine CCL2, respectively. Fibroblasts, glioma cells, smooth muscle cells, endothelial cells,

Target Details

	lymphocytes and mononuclear phagocytes can produce CCL2 either constitutively or upon mitogenic stimulation, but monocytes and macrophages appear to be the major source. In addition to its chemotactic activity, CCL2 induces enzyme and cytokine release by monocytes, NK cells and lymphocytes, and histamine release by basophils that express its receptor, CCR2. Additionally, it promotes Th2 polarization in CD4+ T cells. CCL2-mediated recruitment of monocytes to sites of inflammation is proposed to play a role in the pathology of atherosclerosis, multiple sclerosis and allergic asthma. Synonym: C-C motif chemokine 2, Monocyte chemoattractant protein 1, Monocyte chemotactic protein 1, MCP-1,Platelet-derived growth factor-inducible protein JE, Small-inducible cytokine A2, Ccl2, Je, Mcp1, Scya2
Molecular Weight:	8.5 kDa
UniProt:	P10148
Pathways:	Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Immune Effector Process, ER-Nucleus Signaling, Unfolded Protein Response, The Global Phosphorylation Landscape of SARS-CoV-2 Infection

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.