CD192 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD192, Polyclonal Antibody
Full Product Name	CD192 Rabbit pAb
Product Gene Name	anti-CD192 antibody
Product Synonym Names	CCR2; CMKBR2; C-C chemokine receptor type 2; C-C CKR-2; CC-CKR-2; CCR-2; CCR2; Monocyte chemoattractant protein 1 receptor; MCP-1-R; CD192; CCR2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in PBS containing 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C for 1 year.
OMIM	gene 609423
3D Structure	ModBase 3D Structure for P41597
Immunogen	Synthesized peptide derived from C-C chemokine receptor type 2 at AA range: 1-50
Cellular Localization	Cell Membrane, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD192 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CD192 antibody	WB: 1:500-1:2000 ELISA: 1:10000
Related Product Information for anti-CD192 antibody	MBS8540527 is an antibody targeting CD192. Also known as CD192 Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-CD192 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD192. It may not necessarily be applicable to this product.

NCBI GI #	1168965
NCBI GeneID	729230
NCBI Accession #	P41597.1
UniProt Primary Accession #	P41597
UniProt Related Accession #	P41597
NCBI Official Full Name	C-C chemokine receptor type 2

NCBI Official Synonym Full Names	C-C motif chemokine receptor 2
NCBI Official Symbol	CCR2
NCBI Official Synonym Symbols	CKR2; CCR-2; CCR2A; CCR2B; CD192; CKR2A; CKR2B; CMKBR2; MCP-1-R; CC-CKR-2
UniProt Protein Name	C-C chemokine receptor type 2
UniProt Synonym Protein Names	Monocyte chemoattractant protein 1 receptor; MCP-1-R; CD_antigen: CD192
Protein Family	C-C chemokine receptor
UniProt Gene Name	CCR2
UniProt Synonym Gene Names	CMKBR2; C-C CKR-2; CC-CKR-2; CCR-2; CCR2; MCP-1-R
UniProt Entry Name	CCR2_HUMAN
NCBI Protein Information	C-C chemokine receptor type 2
NCBI Summary for CD192	The protein encoded by this gene is a receptor for monocyte chemoattractant protein-1, a chemokine which specifically mediates monocyte chemotaxis. Monocyte chemoattractant protein-1 is involved in monocyte infiltration in inflammatory diseases such as rheumatoid arthritis as well as in the inflammatory response against tumors. The encoded protein mediates agonist-dependent calcium mobilization and inhibition of adenylyl cyclase. This protein can also be a coreceptor with CD4 for HIV-1 infection. This gene is located in the chemokine receptor gene cluster region of chromosome 3. [provided by RefSeq, Aug 2017]
UniProt Comments for CD192	CCR2: a seven transmembrane protein closely related to CCR1. Receptor for the MCP-1, MCP-3 and MCP-4 chemokines. Expressed at high levels in primary neutrophils and primary monocytes, and is further upregulated on neutrophil activation and during monocyte to macrophage differentiation. Transduces a signal by increasing the intracellular calcium ions level. Alternative co receptor with CD4 for HIV-1 infection. Two splice-variant isoforms have been described. Protein type: GPCR, family 1; Receptor, GPCR; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 3p21.31 Cellular Component: cell soma; integral to plasma membrane; perinuclear region of cytoplasm; cytoplasm; dendrite; plasma membrane; integral to membrane; perikaryon; cytosol Molecular Function: protein homodimerization activity; CCR2 chemokine receptor binding; C-C chemokine receptor activity; chemokine receptor activity Biological Process: viral reproduction; positive regulation of T-helper 1 type immune response; chemotaxis; elevation of cytosolic calcium ion concentration; response to wounding; dendritic cell chemotaxis; cellular homeostasis; inflammatory response; positive regulation of tumor necrosis factor biosynthetic process; cytokine and chemokine mediated signaling pathway; negative regulation of adenylate cyclase activity; JAK-STAT cascade; cellular calcium ion homeostasis; G-protein coupled receptor protein signaling pathway; negative regulation of angiogenesis; positive regulation of interferon-gamma production; negative regulation of T-helper 2 type immune response; positive regulation of interleukin-2 production; innate immune response; cellular defense response; positive regulation of alpha-beta T cell proliferation; immune response; blood vessel remodeling; negative regulation of eosinophil degranulation; positive regulation of T cell activation; positive regulation of inflammatory response
Research Articles on CD192	**1.** The expression of CCR2 on monocytes could be important for the degree of arterial wall inflammation in atherosclerosis, thereby mediating cardiovascular event risk.
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