

12199

CCR2 (D14H7) Rabbit mAb



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 42	Source/Isotype: Rabbit IgG	UniProt ID: #P41597	Entrez-Gene Id: 729230
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		CCR2 (D14H7) Rabbit mAb recognizes endogenous levels of total CCR2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly197 of human CCR2 protein.				
Background		CCR2 is a member of the "CC-branch" of chemokine G protein-coupled receptors that regulate monocyte chemotaxis and T cell migration/activation and drive inflammation in a number of pathological conditions (1). CCR2 is the receptor for several chemokines including MCP-1, MCP-3, and MCP-4 (2-5). CCR2 transduces signals through increases in intracellular calcium levels. It has two alternative isoforms, CCR2A and CCR2B, differing in their carboxy-terminal tails with CCR2B trafficking more efficiently to the membrane (2,6). CCR2 was originally identified in the THP-1 monocyte cell line, and its expression is decreased following differentiation into macrophages (7). Knockout studies demonstrate that CCR2 is a major regulator of macrophage trafficking (8-10). In addition, research studies have shown that CCR2 functions as an alternative coreceptor with CD4 for infection of some strains of HIV (11,12).				
Background References		 Zhao, Q. (2010) J Leukoc Biol 88, 41-55. Charo, I.F. et al. (1994) Proc Natl Acad Sci U S A 91, 2752-6. Franci, C. et al. (1995) J Immunol 154, 6511-7. Yamagami, S. et al. (1994) Biochem Biophys Res Commun 202, 1156-62. Combadiere, C. et al. (1995) J Biol Chem 270, 29671-5. Wong, L.M. et al. (1997) J Biol Chem 272, 1038-45. Denholm, E.M. and Stankus, G.P. (1995) Cytokine 7, 436-40. Kuziel, W.A. et al. (1997) Proc Natl Acad Sci U S A 94, 12053-8. Boring, L. et al. (1997) J Clin Invest 100, 2552-61. Kurihara, T. et al. (1997) J Exp Med 186, 1757-62. Rucker, J. et al. (1996) Cell 87, 437-46. Frade, J.M. et al. (1997) J Clin Invest 100, 497-502. 				

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human

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