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New 01/13

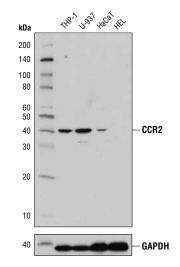
For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype	
W. IP	. н	42 kDa	Rabbit lgG**	
Endogenous	-			

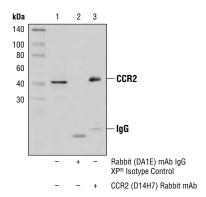
Background: CCR2 is a member of the "CC-branch" of chemokine G protein-coupled receptors that regulate monocyte chemotaxis and T cell migration/activation and drive inflammation in a number of pathological conditions (1). CCR2 is the receptor for several chemokines including MCP-1, MCP-3, and MCP-4 (2-5). 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).

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.



Western blot analysis of extracts from various cell lines using CCR2 (D14H7) Rabbit mAb (upper) or GAPDH (D16H11) XP® Rabbit mAb #5174 (lower). HEL cells are reported to be negative for CCR2 expression (2).



Immunoprecipitation of CCR2 from THP-1 cell extracts using Rabbit (DA1E) mAb IgG XP® Isotype Control #3900 (lane 2) or CCR2 (D14H7) Rabbit mAb (lane 3). Lane 1 is 10% input. Western blot analysis was performed using CCR2 (D14H7) Rabbit mAb.

Entrez-Gene ID #729230 Swiss-Prot Acc. #P41597

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.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

1:1000 Western blotting Immunoprecipitation 1:100

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

Background References:

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