

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCR1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse (rm) CCR4, rmCCR5, and rmCCR8 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse CCR1 Met1-Ala34, Asp92-Lys107, Phe172-Arg197, Gln265-Leu281 Accession # AAH11092
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

CCR1 (C-C chemokine receptor 1; also MIP-1α receptor and CD191) is a 43 kDa member of the GPCR #1 family of transmembrane proteins. Mouse CCR1 is expressed on osteoclasts, IL-13⁺ T cells, neutrophils, bone marrow-derived mast cells, eosinophils, monocytes and vascular intimal smooth muscle cells. Multiple chemokines are reported to bind to CCR1. MIP-1α/CCL3 and RANTES/CCL5 are natural ligands, while CCL15, CCL9 and CCL23 are potent agonists after N-terminal processing. Mouse CCR1 is a 7-transmembrane protein that is 355 amino acids (aa) in length. It contains a 34 aa N-terminal extracellular domain plus a 50 aa C-terminal cytoplasmic tail. Over aa sequences 1-34, 92-107, 172-192 and 265-281 collectively, mouse CCR1 shares 76% and 89% aa identity with human and rat CCR1, respectively.

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