

CCR1 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP4859a

Specification

CCR1 Antibody (N-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	P32246
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	1-30

CCR1 Antibody (N-term) - Additional Information

Gene ID 1230

Other Names

C-C chemokine receptor type 1, C-C CKR-1, CC-CKR-1, CCR-1, CCR1, HM145, LD78 receptor, Macrophage inflammatory protein 1-alpha receptor, MIP-1alpha-R, RANTES-R, CD191, CCR1, CMKBR1, CMKR1, SCYAR1

Target/Specificity

This CCR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human CCR1.

Dilution

WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CCR1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CCR1 Antibody (N-term) - Protein Information

Name CCR1

Synonyms CMKBR1, CMKR1, SCYAR1

Function Chemokine receptor that plays a crucial role in regulating immune cell migration, inflammation, and immune responses (PubMed:[14991608](#)). Contributes to the inflammatory response by recruiting immune cells, such as monocytes, macrophages, T-cells, and dendritic cells, to sites of inflammation for the clearance of pathogens and the resolution of tissue damage. When activated by its ligands including CCL3, CCL5-9, CCL13-16 and CCL23, triggers a signaling cascade within immune cells, leading to their migration towards the source of the chemokine (PubMed:[15905581](#)). For example, mediates neutrophil migration after activation by CCL3 leading to the sequential release of TNF-alpha and leukotriene B4 (By similarity). Mediates also monocyte migration upon CXCL4 binding (PubMed:[29930254](#)). Activation by CCL5 results in neuroinflammation through the ERK1/2 signaling pathway (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

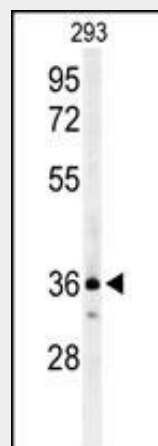
Widely expressed in different hematopoietic cells.

CCR1 Antibody (N-term) - Protocols

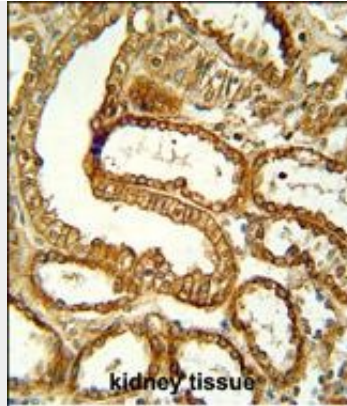
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

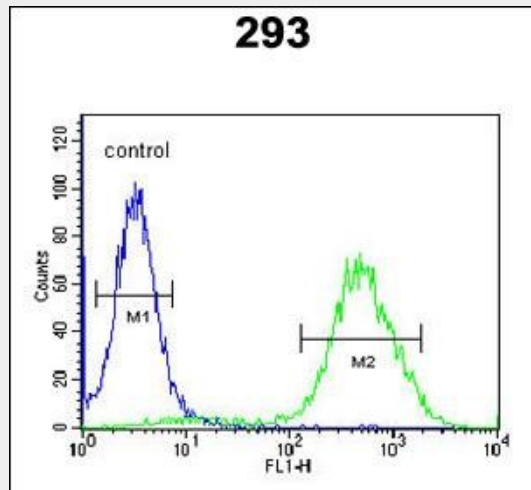
CCR1 Antibody (N-term) - Images



Western blot analysis of CCR1 Antibody (N-term) (Cat. #AP4859a) in 293 cell line lysates (35ug/lane). CCR1 (arrow) was detected using the purified Pab.



CCR1 Antibody (N-term) (Cat. #AP4859a) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CCR1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



CCR1 Antibody (N-term) (Cat. #AP4859a) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CCR1 Antibody (N-term) - Background

CCR1 encodes a member of the beta chemokine receptor family, which is predicted to be a seven transmembrane protein similar to G protein-coupled receptors. The ligands of this receptor include macrophage inflammatory protein 1 alpha (MIP-1 alpha), regulated on activation normal T expressed and secreted protein (RANTES), monocyte chemoattractant protein 3 (MCP-3), and myeloid progenitor inhibitory factor-1 (MPIF-1). Chemokines and their receptors mediated signal transduction are critical for the recruitment of effector immune cells to the site of inflammation. Knockout studies of the mouse homolog suggested the roles of this gene in host protection from inflammatory response, and susceptibility to virus and parasite. This gene and other chemokine receptor genes, including CCR2, CCRL2, CCR3, CCR5 and CCXCR1, are found to form a gene cluster on chromosome 3p.

CCR1 Antibody (N-term) - References

- Dubois, P.C., et al. Nat. Genet. 42(4):295-302(2010)
- Anderson, M.W., et al. Am. J. Clin. Pathol. 133(3):473-483(2010)
- Amundsen, S.S., et al. Genes Immun. 11(1):79-86(2010)