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Anti-CCR1 Picoband Antibody

Catalog # ABO12676

Specification

Anti-CCR1 Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P51675
Host	**Rabbit**
Reactivity	**Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for C-C chemokine receptor type 1(CCR1) detection. Tested with WB, IHC-P in Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-CCR1 Picoband Antibody - Additional Information

Gene ID 12768

Other Names
C-C chemokine receptor type 1, C-C CKR-1, CC-CKR-1, CCR-1, CCR1, Macrophage inflammatory protein 1-alpha receptor, MIP-1alpha-R, RANTES-R, CD191, Ccr1, Cmkbr1

Calculated MW
40895 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, By Heat

Western blot, 0.1-0.5 µg/ml, Mouse, Rat

Subcellular Localization
Cell membrane; Multi-pass membrane protein.

Tissue Specificity
Detected in the heart, spleen, lung, peritoneal exudate cells and leukocytes.

Protein Name
C-C chemokine receptor type 1

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of mouse CCR1 (260-290aa FVSAFQDVLFTNQCEQSKQLDLAMQVTEVIA), different from the related human sequence by nine amino acids.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-CCR1 Picoband Antibody - Protein Information

Name Ccr1

Synonyms Cmkbr1

Function
Chemokine receptor that plays a crucial role in regulating immune cell migration, inflammation, and immune responses (PubMed:9166425). 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 (By similarity). For example, mediates neutrophil migration after activation by CCL3 leading to the sequential release of TNF-alpha and leukotriene B4 (PubMed:15831559). Also mediates monocyte migration upon CXCL4 binding (By similarity). Activation by CCL5 results in neuroinflammation through the ERK1/2 signaling pathway (PubMed:31898284).

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:P32246}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P32246}

Tissue Location
Detected in the heart, spleen, lung, peritoneal exudate cells and leukocytes

Anti-CCR1 Picoband Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CCR1 Picoband Antibody - Images

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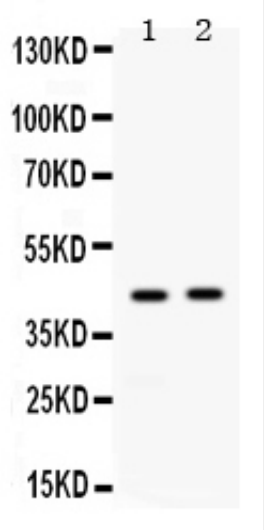
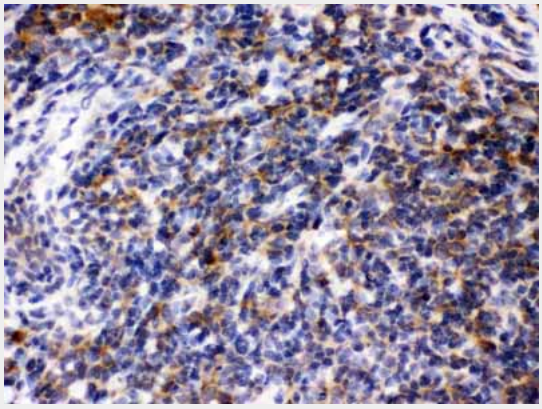
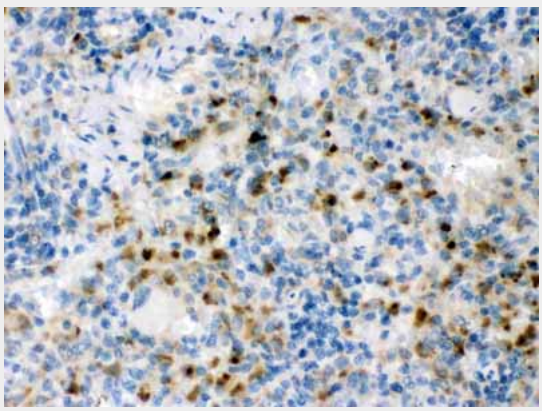


Western blot analysis of CCR1 expression in rat brain extract (lane 1) and mouse brain extract (lane 2). CCR1 at 41KD was detected using rabbit anti- CCR1 Antigen Affinity purified polyclonal antibody (Catalog # ABO12676) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .



CCR1 was detected in paraffin-embedded sections of mouse lymphaden tissues using rabbit anti-CCR1 Antigen Affinity purified polyclonal antibody (Catalog # ABO12676) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .



CCR1 was detected in paraffin-embedded sections of rat spleen tissues using rabbit anti- CCR1 Antigen Affinity purified polyclonal antibody (Catalog # ABO12676) at 1 ??g/mL. The immunohistochemical section was developed using SABC method .

Anti-CCR1 Picoband Antibody - Background

C-C chemokine receptor type 1 is a protein that in humans is encoded by the CCR1 gene. This gene 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.