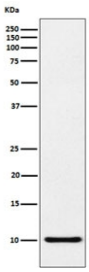
RANTES Antibody ADHH-3 / CCL5 Rabbit Monoclonal Antibody [clone ADHH-3] (RQ5403)

Catalog No.	Formulation	Size
RQ5403	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	ADHH-3
Purity	Affinity purified
UniProt	P13501
Applications	Western blot: 1:1000-1:5000
Limitations	This RANTES Antibody ADHH-3 / CCL5 Rabbit Monoclonal Antibody is available for research use only.



RANTES Antibody ADHH-3 by WB with recombinant human CCL5. Western blot analysis of recombinant human CCL5 using RANTES Antibody ADHH-3. A single, strong immunoreactive band is observed at approximately 10 kDa, consistent with the expected molecular weight of the recombinant CCL5 preparation. The band is well defined, with minimal background and no prominent additional bands. This CCL5 Rabbit Monoclonal Antibody recognizes RANTES, an inflammatory chemokine involved in leukocyte recruitment and immune cell signaling.

Description

RANTES Antibody ADHH-3 is a rabbit monoclonal antibody recognizing C-C motif chemokine ligand 5 (CCL5), commonly known as RANTES. This secreted signaling protein belongs to the CC chemokine family and plays an important role in leukocyte recruitment, inflammatory responses, and immune cell communication. RANTES stands for Regulated on Activation, Normal T Cell Expressed and Secreted, reflecting its association with activated T lymphocytes. CCL5 is produced by several immune cell populations, including T cells, macrophages, and natural killer cells, and helps

coordinate immune responses during infection and inflammation.

The human CCL5 gene is located on chromosome 17q12 and encodes a precursor protein of 91 amino acids with a calculated molecular weight of approximately 10 kDa. Removal of its signal peptide produces a mature chemokine of approximately 8 kDa. CCL5 contains conserved cysteine residues characteristic of CC chemokines and interacts with cell-surface glycosaminoglycans to establish localized concentration gradients. These interactions help direct immune cell migration toward sites of tissue injury, infection, and inflammation.

CCL5 signals through the G protein-coupled chemokine receptors CCR1, CCR3, and CCR5. Receptor activation regulates chemotaxis, cellular adhesion, cytoskeletal rearrangement, and immune cell activation. These processes contribute to leukocyte trafficking and the organization of inflammatory responses. CCL5 also participates in antiviral immunity through its interaction with CCR5, a coreceptor involved in the entry of certain HIV-1 strains. The CCL5 Rabbit Monoclonal Antibody is relevant to investigations of chemokine receptor signaling and immune cell recruitment.

CCL5 expression is regulated by inflammatory cytokines and immune activation pathways. Increased CCL5 production has been associated with chronic inflammation, autoimmune disorders, infectious diseases, and cancer. Within tumor microenvironments, CCL5 can influence immune cell infiltration and interactions between malignant cells and surrounding stromal populations. Its biological effects depend on the local cellular environment and receptor expression patterns. The CCL5 Rabbit Monoclonal Antibody supports research examining inflammatory signaling and chemokine-mediated cellular communication.

Research involving CCL5 contributes to understanding T cell activation, macrophage migration, antiviral immunity, and inflammatory disease mechanisms. Investigating this chemokine provides insight into the regulation of immune cell trafficking and interactions between innate and adaptive immunity. NSJ Bioreagents offers antibodies targeting chemokines and other mediators of immune signaling. A RANTES Antibody ADHH-3 provides a research tool for examining CCL5 expression and its role in leukocyte recruitment, inflammatory responses, and chemokine receptor signaling.

For an alternative polyclonal antibody targeting this chemokine, see our CCL5 Antibody.

Application Notes

Optimal dilution of the RANTES Antibody ADHH-3 / CCL5 Rabbit Monoclonal Antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human RANTES / CCL5 was used as the immunogen for the RANTES Antibody ADHH-3.

Storage

Store the RANTES Antibody ADHH-3 at -20oC.

Alternate Names

CCL5 antibody, RANTES ADHH-3 antibody, C-C Motif Chemokine Ligand 5 antibody, Regulated on Activation Normal T Cell Expressed and Secreted antibody, Small Inducible Cytokine A5 antibody, T Cell-Specific Protein P228 antibody

Copyright © NSJ Bioreagents. All rights reserved.