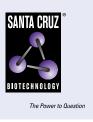
SANTA CRUZ BIOTECHNOLOGY, INC.

RANTES (A-4): sc-365826



BACKGROUND

Structurally, C-C or β -chemokines are characterized by a set of conserved, adjacent cysteines. Members of this family include MCP-1, MCP-2, MCP-3, MIP-1 α , MIP-1 β , RANTES and I-309. RANTES (regulated upon activation, normal T cell expressed and secreted) is expressed by platelets, eosinophils, fibroblasts, macrophages, endothelial cells and T lymphocytes. Consistent with its belonging to the chemokine family, RANTES exhibits strong chemoattractant activity towards monocytes and NK cells. I-309 was initially identified as a factor present in γ/δ T lymphocytes. I-309 cDNA encodes a protein 73 amino acids in length with one potential N-linked glycosylation site Unlike the other members of the C-C family, I-309 does not induce chemotaxis in natural killer (NK) cells.

CHROMOSOMAL LOCATION

Genetic locus: CCL5 (human) mapping to 17q12; Ccl5 (mouse) mapping to 11 C.

SOURCE

RANTES (A-4) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 65-91 at the C-terminus of RANTES of human origin.

PRODUCT

Each vial contains 200 $\mu g\, lgG_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RANTES (A-4) is available conjugated to agarose (sc-365826 AC), 500 μ g/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-365826 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-365826 PE), fluorescein (sc-365826 AF546 AF488), Alexa Fluor[®] 546 (sc-365826 AF546), Alexa Fluor[®] 5494 (sc-365826 AF594) or Alexa Fluor[®] 647 (sc-365826 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-365826 AF680) or Alexa Fluor[®] 790 (sc-365826 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-365826 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

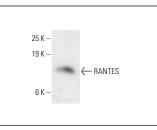
APPLICATIONS

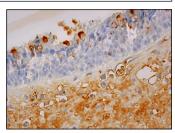
RANTES (A-4) is recommended for detection of RANTES of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for RANTES siRNA (h): sc-44066, RANTES siRNA (m): sc-45573, RANTES shRNA Plasmid (h): sc-44066-SH, RANTES shRNA Plasmid (m): sc-45573-SH, RANTES shRNA (h) Lentiviral Particles: sc-44066-V and RANTES shRNA (m) Lentiviral Particles: sc-45573-V. STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA





RANTES (A-4): sc-365826. Western blot analysis of RANTES expression in NIH/3T3 whole cell lysate. Detection reagent used: m-IgG Fc BP-HRP: sc-525409. RANTES (A-4): sc-365826. Immunoperoxidase staining of formalin fixed, paraffin-embedded human nasopharynx tissue showing cytoplasmic staining of subset of respiratory epithelial cells and extracellular staining of connective tissue cells.

SELECT PRODUCT CITATIONS

- Diao, W., et al. 2019. Astaxanthin protects against renal fibrosis through inhibiting myofibroblast activation and promoting CD8⁺ T cell recruitment. Biochim. Biophys. Acta Gen. Subj. 1863: 1360-1370.
- 2. Porwal, A., et al. 2021. Polyherbal formulation Anoac-H suppresses the expression of RANTES and VEGF for the management of bleeding hemorrhoids and fistula. Mol. Med. Rep. 24: 736.
- Mielcarska, S., et al. 2022. Assessment of the RANTES level correlation and selected inflammatory and pro-angiogenic molecules evaluation of their influence on CRC clinical features: a preliminary observational study. Medicina 58: 203.
- Jin, K., et al. 2022. Single-cell RNA sequencing reveals the temporal diversity and dynamics of cardiac immunity after myocardial infarction. Small Methods 6: e2100752.
- Chen, H., et al. 2022. The E3 ubiquitin ligase WWP2 regulates pro-fibrogenic monocyte infiltration and activity in heart fibrosis. Nat. Commun. 13: 7375.
- Huang, J., et al. 2023. Neural stem cells transplantation combined with ethyl stearate improve PD rats motor behavior by promoting NSCs migration and differentiation. CNS Neurosci. Ther. 29: 1571-1584.
- 7. Solomon, O.D., et al. 2023. Dynamic intravital imaging reveals reactive vessel-associated microglia play a protective role in cerebral malaria coagulopathy. Sci. Rep. 13: 19526.
- Wu, H., et al. 2024. A drug-free cardiovascular stent functionalized with tailored collagen supports *in-situ* healing of vascular tissues. Nat. Commun. 15: 735.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

Molecular Weight of RANTES: 8 kDa.