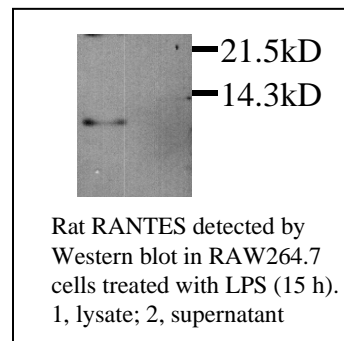


Rabbit Anti-rat RANTES Polyclonal Antibody

Catalog Number: CPR000
Lot Number: 052718
Content: Protein A purified rabbit IgG, 500 µg,
with 0.1% sodium azide, lyophilized.

(Reconstitute to 1 mg/ml by adding 500 µl PBS)



Product Description and Usage: For research use only. This polyclonal antibody, which reacts with both mouse and rat RANTES, was generated using *E. coli*-expressed amino acid 1-70 of mature rat RANTES as an immunogen. The tested titer for Western blot is 1:2,000.

Cross-reactivity to RANTES of other species has not been determined.

Storage Condition: 4°C for short term storage or -20°C in small aliquots for long term storage. Avoid repeated freeze and thaw.

Background: RANTES (regulated upon activation, normal T-cell expressed and secreted) is a 70-amino acid CC chemokine originally cloned from T cell-specific sequences-enriched cDNA libraries^{1,2,3}. Both human and mouse RANTES are chemotactic for monocytes. Human RANTES is also a chemoattractant for T cells and eosinophils, as well as an activator of basophils for histamine release⁴. In contrast to other CC chemokines, RANTES is only slowly expressed after activation of leukocytes. It is involved in a number of pathological conditions like chronic inflammation and autoimmune diseases².

References:

1. Schall, T.J. (1988) A human T cell-specific molecule is a member of a new gene family. *J Immunol.* 141:1018-1025
2. Schall, T. et al. (1992) Molecular cloning and expression of the mouse RANTES cytokine: structural and functional conservation between murine and man. *Eur J Immunol* 22:1477
3. Neilson, E.G., et al. (1992) Isolation and characterization of cDNA from renal tubular epithelium encoding murine Rantes: A small intercrine from the Scy superfamily. *Kidney Int.* 41:220-225
4. Haelens, A. et al. (1996) Leukocyte migration and activation by murine chemokines. *Immunobiol* 195:499-521

