

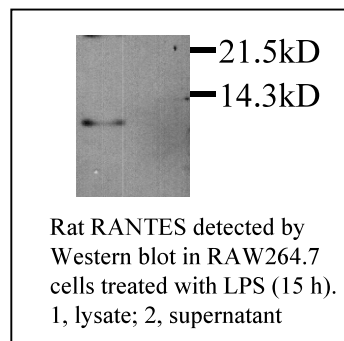
## TECHNICAL DATA SHEET

### Purified Rabbit Anti-rat RANTES

**Catalog Number:** TP211

**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 H<sub>2</sub>O)

**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. This antibody can be used for Western Blot (1:2,000), immunohistochemistry (1:100)<sup>1,2</sup> and neutralizing.<sup>3,4</sup>

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. Both human and murine 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 release<sup>4</sup>. 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 diseases.

#### References:

1. Anita M. Geppert. Constitutive patterns of RANTES, MCP-1 and MIP-1a expression at the mRNA and protein level during postnatal development of the rat brain. *Folia Neuropathol.* 2003, 41(2): 79–88
2. Milan Fiala, et al., Ineffective phagocytosis of amyloid-β by macrophages of Alzheimer's disease patients. *Journal of Alzheimer's Disease* 2005, 7: 221–232
3. Huaizhu Wu, et al., T-Cell Accumulation and Regulated on Activation, Normal T Cell Expressed and Secreted Upregulation in Adipose Tissue in Obesity. *Circulation* 2007,115:1029-1038
4. Adamus G, et al. Expression of CC chemokines and their receptors in the eye in autoimmune anterior uveitis associated with EAE. *Invest Ophthalmol Vis Sci* 2001 42(12): 2894-903

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