

Rantes (Ms) Rabbit Recombinant Oligoclonal Antibody – Purified

Catalog no. 710001

(See product label for lot information)



Clone/PAD: 25HCLC
Isotype: IgG
Gene ID: 20304
Protein Acc. no.: P30882
Qty: 100 µg
Volume: 200 µl
Concentration: 0.5 mg/mL

Formulation

PBS + 0.09% sodium azide

Validation

Validated for use in WB

Immunogen

Recombinant protein

Sequence Identity

Mouse

Sequence Homology

Rat and Human

Expected Reactivity

Based on sequence identity and similarity, reactivity to Mouse and Rat and Human is expected.

Storage

2-8°C for up to 1 month, -20°C for long term storage. Avoid repeated freezing and thawing.

Expiration Date

Expires one year from date of receipt when stored as instructed.

Background

Rantes (regulated upon activation, T cell expressed and secreted) gene is one of CC cytokine genes which are present on chromosome 17 clustered on q arm and is associated with the inflammatory response (1). Rantes functions as a chemoattractant for blood monocytes, eosinophils, and memory T helper cells (2-3). Rantes shows inhibition of replication/entry of various strains of HIV and SIV (4-6).

References

- (1) Schall, T.J. (1991). Biology of the RANTES/SIS cytokine family. *Cytokine* 3, 165-183.
- (2) Schall, T.J., Bacon, K., Toy, K.J., and Goeddel, D.V. (1990). Selective attraction of monocytes and T lymphocytes of the memory phenotype by cytokine RANTES. *Nature* 347, 669-671.
- (3) Schroder, J.M., Kameyoshi, Y., and Christophers, E. (1993). Platelets secrete an eosinophil-chemotactic cytokine which is a member of the C-C-chemokine family. *Advances in experimental medicine and biology* 351, 119-128.
- (4) Cocchi, F., DeVico, A.L., Garzino-Demo, A., Arya, S.K., Gallo, R.C., and Lusso, P. (1995). Identification of RANTES, MIP-1 alpha, and MIP-1 beta as the major HIV-suppressive factors produced by CD8+ T cells. *Science (New York, NY)* 270, 1811-1815.
- (5) Gauduin, M.C., Glickman, R.L., Means, R., and Johnson, R.P. (1998). Inhibition of simian immunodeficiency virus (SIV) replication by CD8(+) T lymphocytes from macaques immunized with live attenuated SIV. *Journal of virology* 72, 6315-6324.
- (6) Mavoungou, D., Poaty-Mavoungou, V., Akoume, M.Y., Ongali, B., and Mavoungou, E. (2005). Inhibition of human immunodeficiency virus type-1 (HIV-1) glycoprotein-mediated cell-cell fusion by immunor (IM28). *Virology journal* 2, 9.

Following applications had been tested during development. To make sure the consistency and reliability in the future lots, each lot is tested with antigen ELISA for specificity and potency. Each lot is also tested with SDS-PAGE, to ensure high purity.

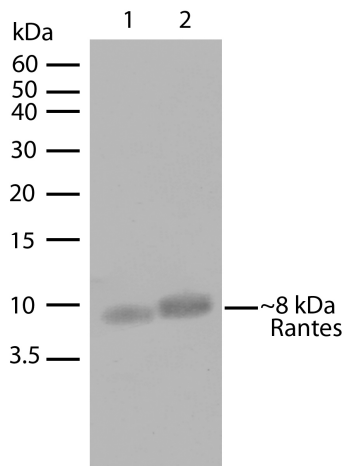
Applications:

| | Species | Test Material | Concentration |
|------------------|---------|----------------|---------------|
| Western Blotting | Mouse | Rec Ms. Rantes | 0.1-1 µg/ml |

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**Western Blot of Rantes (Ms) labeled with rabbit anti-Rantes (Ms)
(Cat. No. 710001).**

Rabbit anti-Rantes (0.1 µg/ml) was used to label Rantes (Ms) in Rec Ms Rantes (5 ng, Lane1) and Rat Rantes (5 ng, Lane 2). The western was performed using the WesternBreeze® kit with NBT/BCIP as the substrate (Cat. No.WB7105).

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