

## Product datasheet

# Recombinant rat RANTES protein ab78608

1 Image

### Description

---

|                            |  |
|----------------------------|--|
| <b>Product name</b>        | Recombinant rat RANTES protein   |
| <b>Biological activity</b> | Biological Activity: ab78608 is fully biologically active when compared to standard. The activity is determined by the ability to chemoattract total human lymphocytes and mouse T-cells at a concentration between 1-10ng/ml. |
| <b>Purity</b>              | > 95 % SDS-PAGE.<br>Purity is greater than 97% as determined by RP-HPLC and reducing and non-reducing SDS-PAGE. Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.   |
| <b>Expression system</b>   | Escherichia coli   |
| <b>Protein length</b>      | Full length protein  |
| <b>Animal free</b>         | No   |
| <b>Nature</b>              | Recombinant  |
| <b>Species</b>             | Rat  |
| <b>Sequence</b>            | SPYGSDTTPC CFAYLSLALP RAHVKEYFYT<br>SSKCSNLAVV FVTRRNRQVC ANPEKKWVQE YINYLEMS  |

### Specifications

---

Our **Abpromise guarantee** covers the use of **ab78608** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

|                     |             |
|---------------------|-------------|
| <b>Applications</b> | SDS-PAGE    |
| <b>Form</b>         | Lyophilized |

### Preparation and Storage

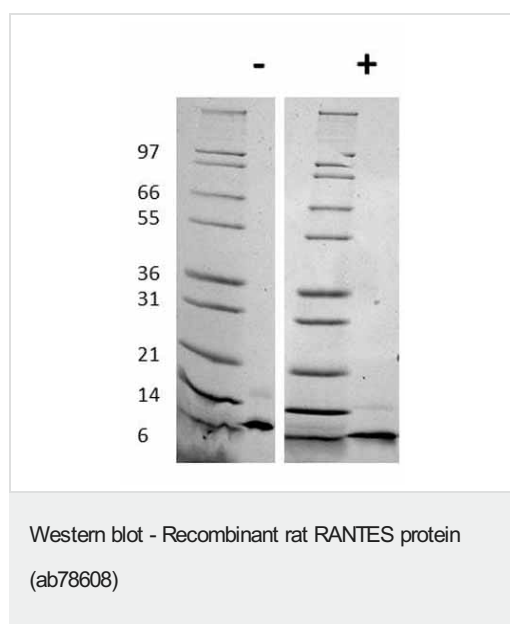
---

|                              |  |
|------------------------------|--|
| <b>Stability and Storage</b> | Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.<br>This product is an active protein and may elicit a biological response in vivo, handle with caution.   |
| <b>Reconstitution</b>        | Reconstitute with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions. Reconstituted material should be aliquoted and frozen at -20C. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage. |

## General Info

|   |   |
|---|---|
| <b>Function</b>                         | Chemoattractant for blood monocytes, memory T-helper cells and eosinophils. Causes the release of histamine from basophils and activates eosinophils. Binds to CCR1, CCR3, CCR4 and CCR5. One of the major HIV-suppressive factors produced by CD8+ T-cells. Recombinant RANTES protein induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). The processed form RANTES(3-68) acts as a natural chemotaxis inhibitor and is a more potent inhibitor of HIV-1-infection. The second processed form RANTES(4-68) exhibits reduced chemotactic and HIV-suppressive activity compared with RANTES(1-68) and RANTES(3-68) and is generated by an unidentified enzyme associated with monocytes and neutrophils. |
| <b>Tissue specificity</b>               | T-cell and macrophage specific.   |
| <b>Sequence similarities</b>            | Belongs to the intercrine beta (chemokine CC) family.   |
| <b>Post-translational modifications</b> | N-terminal processed form RANTES(3-68) is produced by proteolytic cleavage, probably by DPP4, after secretion from peripheral blood leukocytes and cultured sarcoma cells. The identity of the O-linked saccharides at Ser-27 and Ser-28 are not reported in PubMed:1380064. They are assigned by similarity.   |
| <b>Cellular localization</b>            | Secreted.   |

## Images



ab78608 used in Western Blot. Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel stained with Coomassie Blue. Rat RANTES has a predicted MW of 7.8 kDa.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish

- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors