

Product datasheet

Anti-RANTES antibody ab9679

★★★★★ 7 Abreviews 11 References 4 Images

Overview

Product name	Anti-RANTES antibody
Description	Rabbit polyclonal to RANTES
Host species	Rabbit
Tested applications	Suitable for: WB, ELISA, Neutralising, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Highly pure (>98%) recombinant hRANTES (human RANTES)
Positive control	Recombinant human RANTES protein (ab9680) can be used as a positive control in WB.

Properties

Form	Lyophilised:Reconstitute with 200µl of sterile water. Please note that if you receive this product in liquid form it has already been reconstituted as described and no further reconstitution is necessary.
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	PBS, pH 7.4, no preservative, sterile filtered
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	unknown
Light chain type	unknown

Applications

Our [Abpromise guarantee](#) covers the use of **ab9679** in the following tested applications.

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

Application	Abreviews	Notes
WB	★★★★★	Use a concentration of 0.1 - 0.2 µg/ml.
ELISA	★★★★★	Use a concentration of 0.5 µg/ml.

Application	Abreviews	Notes
Neutralising		Use at an assay dependent dilution. To yield one-half maximal inhibition [ND ₅₀] of the biological activity of hRANTES (100.00 ng/ml), a concentration of 5.0 - 7.0 µg/ml of this antibody is required.
IHC-P	★★★★★	Use a concentration of 2 µg/ml.

Target

Function

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.

Tissue specificity

T-cell and macrophage specific.

Sequence similarities

Belongs to the intercrine beta (chemokine CC) family.

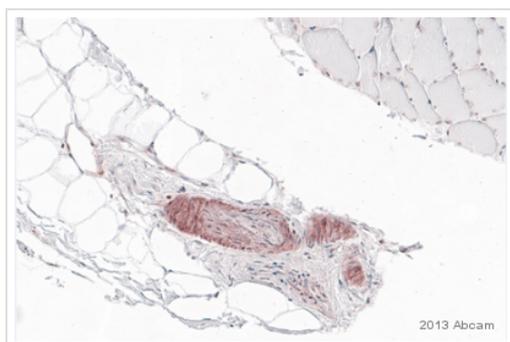
Post-translational modifications

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.

Cellular localization

Secreted.

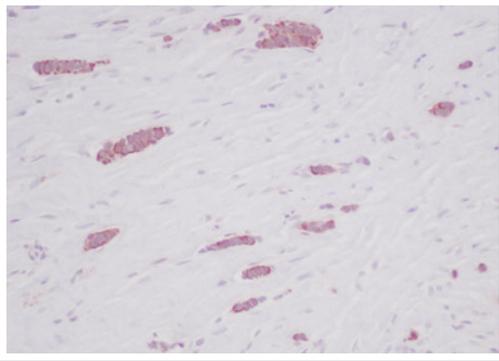
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RANTES antibody (ab9679)

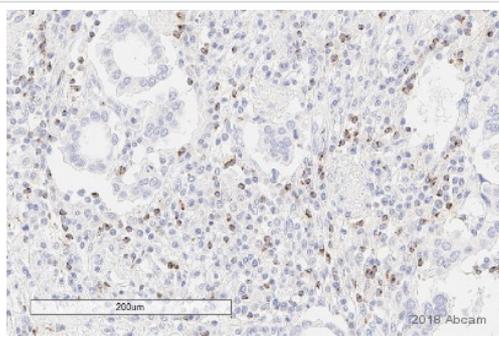
This image is courtesy of an anonymous Abreview

ab9679 staining RANTES in Human skeletal muscle (gastrocnemius) tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with methacarn and blocked with 10% serum for 20 minutes at 25°C; antigen retrieval was by heat mediation in citrate buffer (pH 6) and tris buffer (pH 8). Samples were incubated with primary antibody (2µg/ml) for 1 hour at 25°C. An undiluted HRP-conjugated Mouse anti-rabbit IgG polyclonal was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RANTES antibody (ab9679)

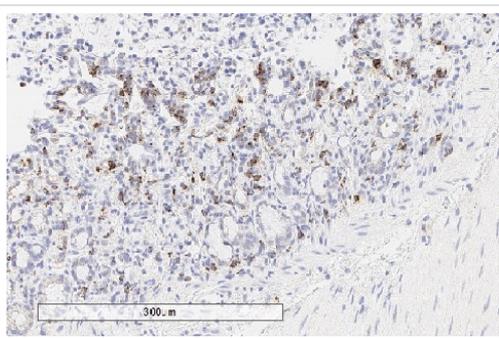
ab9679 staining RANTES in human breast invasive ductal carcinoma tissue section by Immunohistochemistry (Formalin/PFA fixed paraffin-embedded sections). Tissue underwent heat mediated antigen retrieval in sodium citrate buffer (pH 6.0). The primary antibody was used at 2.0 ug/ml and incubated with sample at 4°C overnight. A HRP-labeled polymer detection system was used with an AEC chromogen.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RANTES antibody (ab9679)

This image is courtesy of an anonymous Abreview

Formalin-fixed, paraffin-embedded human breast cancer tissue stained for RANTES using ab9679 at 1/150 dilution in immunohistochemical analysis. Goat anti-Rabbit HRP was used as the secondary antibody. Heat mediated antigen retrieval using EDTA at pH 9 was used before commencing with the IHC protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RANTES antibody (ab9679)

This image is courtesy of an anonymous Abreview.

Formalin-fixed, paraffin-embedded mouse colon tissue stained for RANTES using ab9679 at 1/150 dilution in immunohistochemical analysis. Goat anti-Rabbit HRP was used as the secondary antibody. Heat mediated antigen retrieval using EDTA at pH 9 was used before commencing with the IHC protocol.

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