

Product datasheet

Anti-RANTES antibody [VL-1] ab9666

★★★★★ 2 Abreviews 1 References 1 Image

Overview

Product name	Anti-RANTES antibody [VL-1]
Description	Mouse monoclonal [VL-1] to RANTES
Tested applications	Suitable for: IHC-P, ELISA, Neutralising, WB
Species reactivity	Reacts with: Human
Immunogen	Full length protein (Human).
General notes	Abcam is committed to meeting high standards of ethical manufacturing and as such, we will be discontinuing this product, which has been generated by the ascites method, within the next year. We are sorry for any inconvenience this may cause. If you would like help finding an alternative product, please do not hesitate to contact our scientific support team.

Properties

Form	Lyophilised:Reconstitute with 500µl of sterile water.
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	Phosphate buffered saline
Purity	Protein A purified
Purification notes	Purified from ascitic fluid on a Protein A affinity column
Clonality	Monoclonal
Clone number	VL-1
Isotype	IgG2b
Light chain type	unknown

Applications

Our [Abpromise guarantee](#) covers the use of **ab9666** 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
IHC-P	★★★★★	1/300. PubMed: 19155524
ELISA	★★★★★	1/8000. Can be paired for ELISA with Rabbit polyclonal to RANTES (ab9679) .
Neutralising		Use a concentration of 5 - 7 µg/ml.
WB		Use a concentration of 0.5 - 1 µg/ml. Predicted molecular weight: 10 kDa.

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.

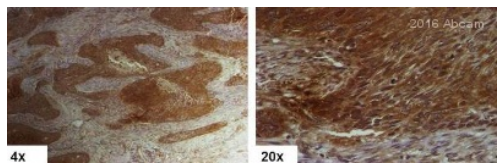
Post-translational modifications

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 [VL-1] (ab9666)

This image is courtesy of an Abreview by Tatiana Karakasheva.

ab9666 staining RANTES in human esophageal squamous cell carcinoma tissue sections by Immunohistochemistry (PFA perfusion fixed frozen sections). Tissue samples were fixed by perfusion with formaldehyde, cut into 20 micron slices, blocked with a blocking agent for 20 minutes at 20°C and no antigen retrieval was conducted. The sample was incubated with primary antibody (1/100 in PBS + 0.1%BSA + 0.2%TritonX-100) at 4°C for 17 hours. A biotin-conjugated horse anti-mouse polyclonal (1/200) was used as the secondary antibody.

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