

Product datasheet

Anti-CCR4 antibody [KH-4F5] ab59550

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Overview

Product name	Anti-CCR4 antibody [KH-4F5]
Description	Mouse monoclonal [KH-4F5] to CCR4
Host species	Mouse
Tested applications	Suitable for: Flow Cyt, ICC/IF
Species reactivity	Reacts with: Recombinant fragment
Immunogen	Synthetic peptide from human CCR4
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
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	pH: 7.20 Constituent: PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	KH-4F5
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab59550 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
Flow Cyt		Use 1.2µg for 10 ⁶ cells. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
ICC/IF		Use 1µg for 10 ⁶ cells.

Target

Function

High affinity receptor for the C-C type chemokines CCL17/TARC and CCL22/MDC. The activity of this receptor is mediated by G(i) proteins which activate a phosphatidylinositol-calcium second messenger system. Can function as a chemoattractant homing receptor on circulating memory lymphocytes and as a coreceptor for some primary HIV-2 isolates. In the CNS, could mediate hippocampal-neuron survival.

Tissue specificity

Predominantly expressed in the thymus, in peripheral blood leukocytes, including T-cells, mostly CD4+ cells, and basophils, and in platelets; at lower levels, in the spleen and in monocytes. Detected also in macrophages, IL-2-activated natural killer cells and skin-homing memory T-cells, mostly the ones expressing the cutaneous lymphocyte antigen (CLA). Expressed in brain microvascular and coronary artery endothelial cells.

Sequence similarities

Belongs to the G-protein coupled receptor 1 family.

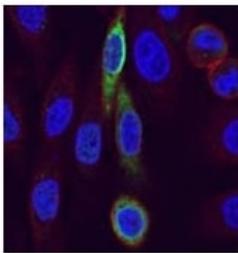
Post-translational modifications

In natural killer cells, CCL22 binding induces phosphorylation on yet undefined Ser/Thr residues, most probably by beta-adrenergic receptor kinases 1 and 2.

Cellular localization

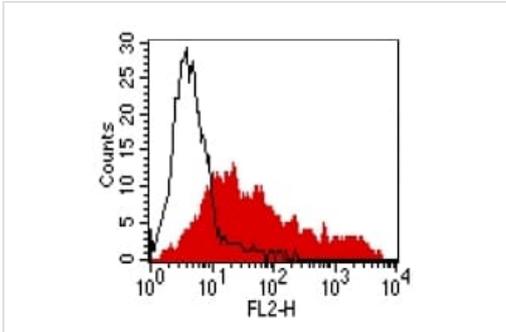
Cell membrane.

Images



Spectral Confocal Microscopy of CHO cells using ab59550 at 1 µg/10⁶ cells . CHO cells were transiently transfected with an expression vector encoding CCR4. Binding of ab59550 was visualized with a FITC-conjugated secondary antibody (green). Actin filaments are labeled with Alexa Fluor-555 Phalloidin (red). Cell nuclei are stained with DAPI (blue).

Immunocytochemistry/ Immunofluorescence - Anti-CCR4 antibody [KH-4F5] (ab59550)



Flow Cytometry - Anti-CCR4 antibody [KH-4F5]
(ab59550)

FACS analysis of BOSC23 cells using ab59550 at $1.2 \mu\text{g}/10^6$ cells. BOSC23 cells were transiently transfected with an expression vector encoding either CCR4 (red curve) or an irrelevant protein (control transfectant). Binding of ab59550 was detected with a PE conjugated secondary antibody.

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

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