

## Product datasheet

### Anti-CCR4 antibody [KH-4F5] ab59550

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#### Overview

<b>Product name</b>	Anti-CCR4 antibody [KH-4F5]
<b>Description</b>	Mouse monoclonal [KH-4F5] to CCR4
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Recombinant fragment
<b>Immunogen</b>	Synthetic peptide from human CCR4
<b>General notes</b>	<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&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
<b>Storage buffer</b>	pH: 7.20 Constituent: PBS
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	KH-4F5
<b>Isotype</b>	IgG2a

#### Applications

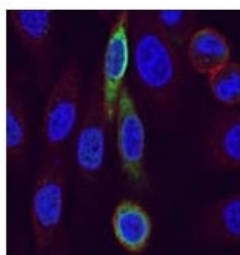
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab59550 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 1.2µg for 10 <sup>6</sup> cells. <b>ab170191</b> - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
ICC/IF		Use 1µg for 10 <sup>6</sup> cells.

## Target

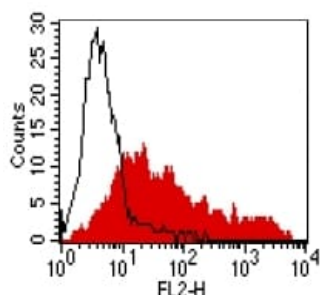
<b>Function</b>	High affinity receptor for the C-C type chemokines CCL17/TARC and CCL22/MDC. The activity of this receptor is mediated by G(i) proteins which activate a phosphatidylinositol-calcium second messenger system. Can function as a chemoattractant homing receptor on circulating memory lymphocytes and as a coreceptor for some primary HIV-2 isolates. In the CNS, could mediate hippocampal-neuron survival.
<b>Tissue specificity</b>	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.
<b>Sequence similarities</b>	Belongs to the G-protein coupled receptor 1 family.
<b>Post-translational modifications</b>	In natural killer cells, CCL22 binding induces phosphorylation on yet undefined Ser/Thr residues, most probably by beta-adrenergic receptor kinases 1 and 2.
<b>Cellular localization</b>	Cell membrane.

## Images



Spectral Confocal Microscopy of CHO cells using ab59550 at 1 µg/10<sup>6</sup> 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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