

Product datasheet

Anti-CCR4 antibody [KH-4F5] ab59550

1 Abreviews 2 Images

Overview

Product name	Anti-CCR4 antibody [KH-4F5]
Description	Mouse monoclonal [KH-4F5] to CCR4
Host species	Mouse
Tested applications	Suitable for: ELISA, Flow Cyt, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide from human CCR4

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	Preservative: None Constituents: PBS, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Clone number	KH-4F5
Isotype	IgG2a

Applications

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
ELISA		1/200 - 1/400.
Flow Cyt		Use 1.2µg for 10 ⁶ cells. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Application	Abreviews	Notes
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.

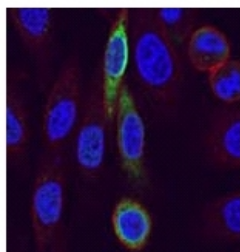
Tissue specificity Predominantly expressed in the thymus, in peripheral blood leukocytes, including T-cells, mostly CD4+ cells, and basophils, and in platelets; at lower levels, in the spleen and in monocytes. Detected also in macrophages, IL-2-activated natural killer cells and skin-homing memory T-cells, 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.

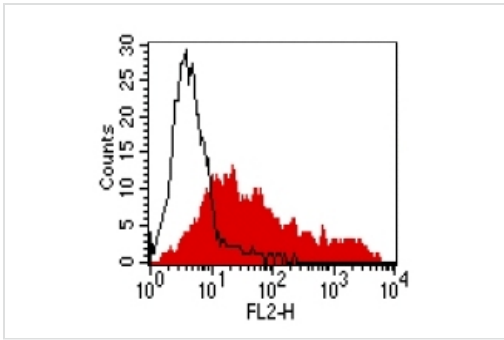
Cellular localization Cell membrane.

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.

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