

## Product datasheet for **DM1232**

### CCR4 Mouse Monoclonal Antibody [Clone ID: KH-4F5]

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Clone Name:           | KH-4F5   |
| Applications:         | ELISA, FC, IF, WB  |
| Recommended Dilution: | <b>Cell based ELISA</b> with intact, transiently transfected cells: 1/200-1/400.<br><b>Flow cytometry:</b> 1.2 µg/10 <sup>6</sup> cells.<br><b>Immunofluorescence:</b> 1 µg/10 <sup>6</sup> cells. |
| Reactivity:           | Human  |
| Host:                 | Mouse  |
| Isotype:              | IgG2a  |
| Clonality:            | Monoclonal   |
| Immunogen:            | Immunisation with Human CCR4 peptide.  |
| Specificity:          | Recognizes Human CCR4. Other species not tested.   |
| Formulation:          | Phosphate buffered saline, pH 7.2<br>State: Purified<br>State: Liquid purified Ig fraction   |
| Concentration:        | lot specific   |
| Purification:         | Affinity Chromatography on Protein G   |
| Conjugation:          | Unconjugated   |
| Storage:              | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.   |
| Stability:            | Shelf life: one year from despatch.  |
| Gene Name:            | C-C motif chemokine receptor 4   |
| Database Link:        | <a href="#">Entrez Gene 1233 Human P51679</a>  |



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**Background:**

CCR4 (CC chemokine receptor 4) belongs to the rhodopsin family of G-protein-coupled receptors. Chemokine receptors are membrane-bound molecules composed of 7-transmembrane domains and are coupled to G-proteins (1,2). CCR4 binds the chemokines CCL17 (TARC) and CCL22 (MDC) and is highly expressed in most single-positive CD4(+) thymocytes especially in TH2- and regulatory T-cells (3,4). It plays a central role in T cell migration to the thymus, T cell maturation and education. CCR4 is often up-regulated in inflammation and cause conformational changes that trigger intracellular signaling pathways (2,5).

**Synonyms:**

C-C chemokine receptor type 4, C-C CKR-4, CC-CKR-4, CCR-4, CMKBR4, K5-5

**Note:**

**SDS-PAGE analysis:** The antibody was purified by protein G affinity chromatography from cell culture supernatants and verified by SDS-Page (Figure.3).

**Protein Families:**

Druggable Genome, GPCR, Transmembrane

**Protein Pathways:**

Chemokine signaling pathway, Cytokine-cytokine receptor interaction

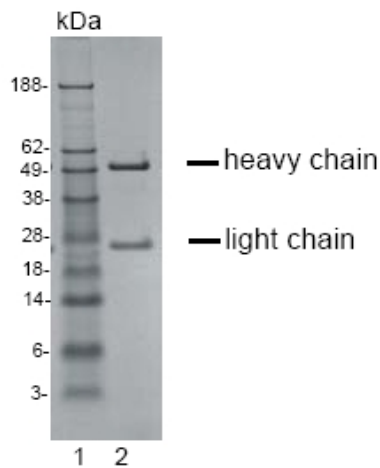
**Product images:**


Figure 4: SDS-PAGE analysis of purified KH-4F5 monoclonal antibody. Lane 1: Molecular weight marker, Lane 2: 2 ug of purified KH-4F5 antibody. Proteins were separated by SDS-PAGE and stained with RAPID Stain™ Reagent.

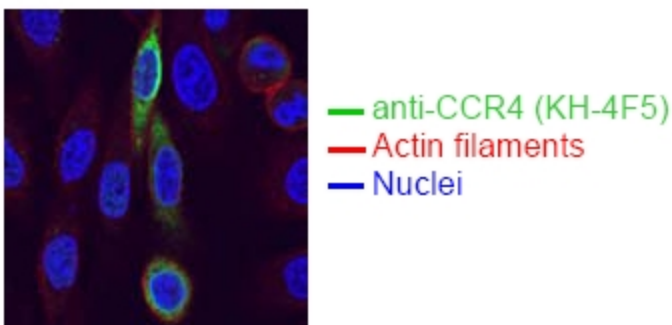


Figure 2: Spectral Confocal Microscopy of CHO cells using KH-4F5 antibody. CHO cells were transiently transfected with an expression vector encoding CCR4. Binding of KH-4F5 was visualized with a FITC-conjugated secondary antibody (green). Actin filaments are labeled with Alexa Fluor-555 Phalloidin (red). Cell nuclei are stained with DAPI (blue).

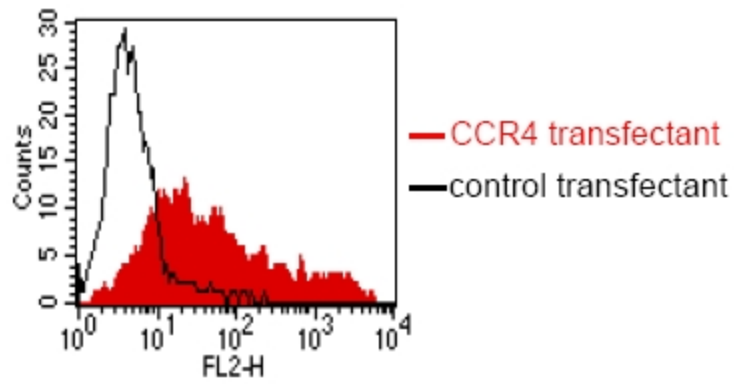


Figure 1: FACS analysis of BOSC23 cells using KH-4F5 antibody. BOSC23 cells were transiently transfected with an expression vector encoding either CCR4 (Red curve) or an irrelevant protein (control transfectant). Binding of KH-4F5 was detected with a PE conjugated secondary antibody. A positive signal was obtained only with CCR4 transfected cells.