

Mouse anti-Human CCR4 Monoclonal Antibody | anti-CCR4 antibody

anti-human CCR4 monoclonal antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71468	Mouse	Human	ELISA, Flow Cytometry, Functional Assay

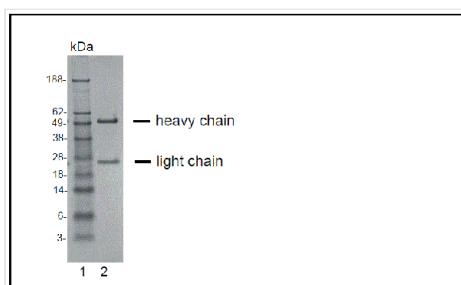
PRODUCT SYNONYMS

CCR4; Monoclonal Antibody; anti-human CCR4 monoclonal antibody; CC chemokine receptor 4; anti-CCR4 antibody

PRODUCT SPECIFICATIONS

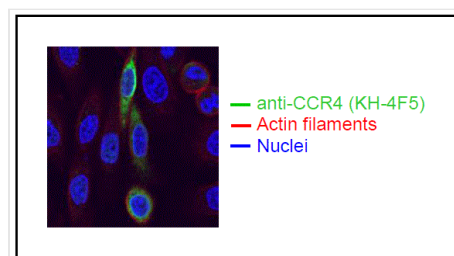
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	KH-4F5
Specificity	anti-human CCR4
Purity/Purification	Protein G
Form/Format	Purified
Sequence Length	360
Applicable Applications for anti-CCR4 antibody	ELISA (Competitive ELISA), FCM/FACS (Flow Cytometry)
Buffer	phosphate buffered saline, pH 7.2
Immunogen	immunisation with human CCR4 peptide
Selection	based on recognition of the complete native protein expressed on transfected mammalian cells
Immunogen	peptide
Preparation and Storage	Short term: 2 degree C - 8 degree C; long term: -20 degree C (avoid repeated freezing and thawing)

IMAGES



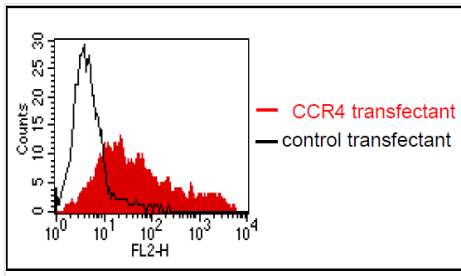
Application Data

SDS-PAGE analysis of KH-4F5 The antibody was purified by protein G affinity chromatography from cell culture supernatants and verified by SDS-Page (Fig.3). Fig.3: SDS-PAGE analysis of purified KH-4F5 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 µg of purified KH-4F5 antibody. Proteins were separated by SDS-PAGE and stained with RAPID Stain™ Reagent.



Application Data

Fig.2: Spectral Confocal Microscopy of CHO cells using KH-4F5 Cat.# GM-0602. 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).



Application Data

Fig.1: FACS analysis of BOSC23 cells using KH- 4F5 Cat.# GM-0602. 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.

ADDITIONAL INFORMATION

Related Product Information for anti-CCR4 antibody	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).
References	Andrew DP et al. (2001). C-C chemokine receptor 4 expression defines a major subset of circulating nonintestinal memory T cells of both Th1 and Th2 potential. <i>J Immunol</i> 166(1): 103-11 Murdoch C and Finn A (2000). Chemokine receptors and their role in inflammation and infectious diseases. <i>Blood</i> 95 (10): 3032-3043 Imai T et al. (1997). The T cell-directed CC chemokine TARC is a highly specific biological ligand for CC chemokine receptor 4. <i>J Biol Chem</i> 272(23):15036-42 Imai T et al. (1998). Macrophage-derived chemokine is a functional ligand for the CC chemokine receptor 4. <i>J Biol Chem</i> 273(3):1764-8 Purandare AV and Somerville JE (2006). Antagonists of CCR4 as immunomodulatory agents. <i>Curr Top Med Chem</i> 6(13):1335-44

NCBI AND UNIPROT INFORMATION

NCBI GI #	5031627
NCBI GeneID	1233
NCBI Accession #	NP_005499.1
NCBI GenBank Nucleotide #	NM_005508.4
UniProt Accession #	P51679; Q9ULY6; Q9ULY7
Molecular Weight	41,403 Da
NCBI Official Full Name	C-C chemokine receptor type 4
NCBI Official Synonym Full Names	chemokine (C-C motif) receptor 4
NCBI Official Symbol	CCR4
NCBI Official Synonym Symbols	CKR4; K5-5; CD194; CMKBR4; ChemR13; CC-CKR-4; HGCN:14099
NCBI Protein Information	C-C chemokine receptor type 4; CCR4; C-C CKR-4; chemokine (C-C) receptor 4
UniProt Gene Name	CCR4
UniProt Synonym Gene Names	CMKBR4; C-C CKR-4; CC-CKR-4; CCR-4; CCR4
UniProt Entry Name	CCR4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/ccr4-antibody-clone-kh-4f5-competitive-elisa-flow-cytometry-elisa/71468>