

Rabbit CCR4 Polyclonal Antibody | anti-CCR4 antibody

Anti-CCR4 Antibody Picoband

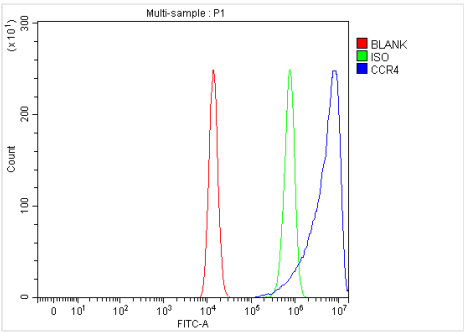
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127010	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

CCR4; Polyclonal Antibody; Anti-CCR4 Antibody Picoband; chemokine (C-C motif) receptor 4; C-C chemokine receptor type 4; C-C CKR-4; CC-CKR-4; CCR-4; K5-5; CD194; CMKBR4; anti-CCR4 antibody

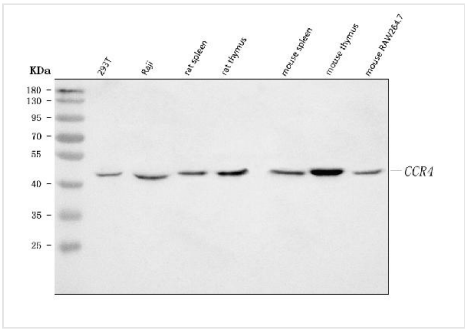
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
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.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-CCR4 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human CCR4 recombinant protein (Position: L267-H296).
Subcellular Localization	Cell membrane, Multi-pass membrane protein
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	High affinity receptor for the C-C type chemokines CCL17/TARC, CCL22/MDC and CKLF isoform 1/CKLF1. 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.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HEL cells using anti-CCR4 antibody (AAA127010).Overlay histogram showing HEL cells stained with AAA127010 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CCR4 Antibody (AAA127010, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of CCR4 using anti-CCR4 antibody (AAA127010).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human 293T whole cell lysates,Lane 2: human Raji whole cell lysates,Lane 3: rat spleen tissue lysates,Lane 4: rat thymus tissue lysates,Lane 5: mouse spleen tissue lysates,Lane 6: mouse thymus tissue lysates,Lane 7: mouse RAW264.7 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CCR4 antigen affinity purified polyclonal antibody (#AAA127010) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CCR4 at approximately 50 kDa. The expected band size for CCR4 is at 41 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CCR4 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-CCR4 antibody	Primary Antibodies; Atherosclerosis; Cardiovascular; Chemokines; Immunology; Innate Immunity; Vascular Inflammation
References	1. Imai, T., Baba, M., Nishimura, M., Kakizaki, M., Takagi, S., Yoshie, O.The T cell-ed CC chemokine TARC is a highly specific biological ligand for CC chemokine receptor 4.J. Biol. Chem. 272: 15036-15042, 1997.2. Imai, T., Chantry, D., Raport, C. J., Woods, C. L., Nishimura, M., Godiska, R., Yoshie, O., Gray, P. W.Macrophage-derived chemokine is a functional ligand for the CC chemokine receptor 4.J. Biol. Chem. 273: 1764-1768, 1998.3. Oo, Y. H., Weston, C. J., Lalor, P. F., Curbishley, S. M., Withers, D. R., Reynolds, G. M., Shetty, S., Harki, J., Shaw, J. C., Eksteen, B., Hubscher, S. G., Walker, L. S. K., Adams, D. H.Distinct roles for CCR4 and CXCR3 in the recruitment and positioning of regulatory T cells in the inflamed human liver.J. Immun. 184: 2886-2898, 2010.

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; CCR-4; C-C CKR-4; chemokine (C-C) receptor 4
UniProt Protein Name	C-C chemokine receptor type 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://www.aaabiotech.com/polyclonal/ccr4-antibody-flow-cytometry-western-blot-elisa/127010>