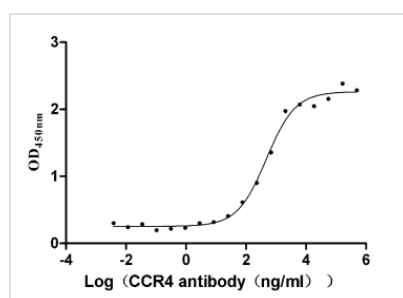




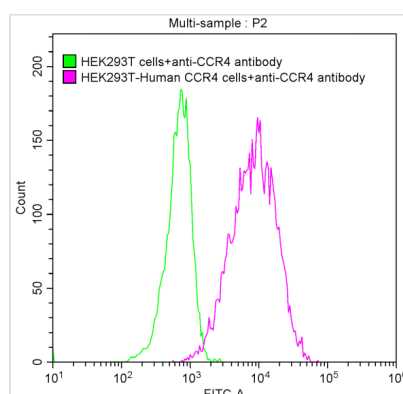
CCR4 Recombinant Monoclonal Antibody

Product Code	CSB-RA004843MA01HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P51679
Immunogen	Recombinant Human CCR4 protein
Species Reactivity	Human
Tested Applications	ELISA, FC; Recommended dilution: FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	Affinity-chromatography
Isotype	hIgG1
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology
Gene Names	CCR4
Clone No.	12F5

Image



The Binding Activity of CCR4 with Anti-CCR4 Recombinant Antibody
Activity: Measured by its binding ability in a functional ELISA. Immobilized CCR4 (CSB-MP004843HU) at 10 µg/mL can bind Anti-CCR4 Recombinant Antibody, the EC₅₀ is 362.3-630.8 ng/mL.



Untransfected HEK293 cells surface (green line) and transfected Human CCR4 HEK293 stable cells surface (red line) were stained with anti-CCR4 antibody(2µl/1*10⁶ cells), washed and then followed by FITC-conjugated anti-Human IgG Fc antibody and analyzed with flow cytometry.



Description

The creation of the CCR4 recombinant monoclonal antibody involves a meticulous process aimed at ensuring its exceptional quality and specificity. Initially, B cells are isolated from the spleen of an immunized animal using the recombinant human CCR4 protein as the immunogen. RNA is then extracted from the B cells and converted into cDNA through reverse transcription. The CCR4 antibody genes are amplified using specific primers targeting the antibody constant regions and inserted into an expression vector. This vector is subsequently transfected into host cells, enabling the production of the CCR4 recombinant monoclonal antibody. After a period of cell culture, the antibody is harvested from the cell culture supernatant and subjected to purification using affinity chromatography, resulting in a highly purified form suitable for various applications. Stringent characterization assays, including ELISA and FC analysis, are conducted to validate the antibody's specificity and functionality in detecting human CCR4 protein. The rigorous production process ensures the generation of a reliable and effective CCR4 recombinant monoclonal antibody, which plays a crucial role in a wide range of CCR4-related research.