

Datasheet for ABIN7543271
Recombinant anti-XCR1 antibody



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Overview

Quantity:	200 µg
Target:	XCR1
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Chimeric
Conjugate:	This XCR1 antibody is un-conjugated
Application:	ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-XCR1 [5G7], Rabbit IgG, kappa
Immunogen:	The original antibody was generated by immunizing XCR1 knockout mice with human XCR1-expressing B300.19 cells mixed with equal volume of GERBU adjuvant.
Clone:	5G7
Isotype:	IgG kappa
Specificity:	This antibody binds human XCR1, more particularly it strongly binds amino acids 'PESTTFYDLQ' of the human XCR1. XCR1 is a receptor for chemokines SCYC1 and SCYC2 and expressed on 80 % of CD8+ the dendritic cells. It also acts as a receptor for XCL1/Lymphotactin. It transduces a signal by increasing the intracellular calcium ions level.
Characteristics:	Original Species of Ab: Mouse Original Format of Ab: IgG2b

Product Details

Purification: Protein A affinity purified

Target Details

Target: XCR1

Alternative Name: XCR1 ([XCR1 Products](#))

Background: CCXCR1, GPR5, chemokine XC receptor 1, G-protein coupled receptor 5, lymphotactin receptor

UniProt: [P46094](#)

Application Details

Application Notes: This antibody is capable of binding human XCR1-EGFP-expressing B300.19 cells in a flow cytometry analysis. The determination of the binding epitope of this antibody was done using ELISA (US9371389). This antibody exhibits a significant effect in treating rheumatoid arthritis in the experiment of delayed-type hypersensitivity reaction induced by Mycobacterium butyricum delayed-type hypersensitivity reaction. The neutralizing activity of this antibody against human lymphotactin-induced migration of human XCR1-expressing cells was evaluated by in vitro chemotaxis assay. It was reported that this antibody completely inhibited cell migration at a concentration of about 3 µg/mL (US9371389). The effect of this antibody on ear swelling of DNFB (Dinitrofluorobenzene)-sensitized mice was done and it was reported that this antibody caused significant suppression of ear swelling 24 after induction. This antibody was also reported to show showed a very low reactivity to human CX3CR1-EGFP-expressing B300.19 cells (US9371389). The original antibody with saporin-conjugated secondary antibody showed growth suppression of human XCR1-EGFP-expressing B300.19 cells. The humanized version of this antibody is also available on request (US9371389).

Comment: This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2b format for improved compatibility with existing reagents assays and techniques.

Restrictions: For Research Use only

Handling

Concentration: 1 mg/mL

Buffer: PBS with 0.02 % Proclin 300.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be

Handling

handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.