

Datasheet for ABIN7543269

Recombinant anti-XCR1 antibody[Go to Product page](#)

Overview

Quantity:	200 µg
Target:	XCR1
Reactivity:	Mouse
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Chimeric
Conjugate:	This XCR1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Flow Cytometry (FACS), In vivo Studies (in vivo)

Product Details

Purpose:	Anti-XCR1 [MARX10], Rabbit IgG, kappa
Immunogen:	The original antibody was generated by immunizing B6.XCR1-lacZ mice every 3 weeks (4 times in succession) with 30×10^6 CD11c-enriched cells from C57BL/6 WT mice in combination with heat-inactivated B. pertussis.
Clone:	MARX10
Isotype:	IgG kappa
Specificity:	This antibody binds mouse XCR1, which is a receptor for chemokines SCYC1 and SCYC2 and expressed on 80 % of CD8+ the dendritic cells. It transduces a signal by increasing the intracellular calcium ions level. This antibody is also reported to cross-reacts with rat CXR1.
Cross-Reactivity:	Rat

Product Details

Characteristics: Original Species of Ab: Mouse
Original Format of Ab: IgG2b

Purification: Protein A affinity purified

Target Details

Target: XCR1

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

Background: MXCR1, Ccxcr1, Chemokine XC receptor 1, Lymphotactin receptor, SCM1 receptor, XC chemokine receptor 1, MARX10

UniProt: [Q9R0M1](#)

Application Details

Application Notes: This antibody was used to stain cryostat sections (12 μ m) of spleens from C57BL/6 WT and B6.XCR1-lacZ mice. It was found that this antibody could stain 20 % of splenic conventional dendritic cells in C57BL/6 WT mice but did not give a signal in homozygous B6.XCR1-lacZ animals, which lack the XCR1 receptor. This antibody was also used to subsets of dendritic cells that express XCR1 using flow cytometry (Bachem et al., 2012, PMID: 22826713). Digoxigenin (Dig) coupled MARX10 was injected into C57BL/6 mice for *in vivo* labeling of XCR1⁺ dendritic cells. Recombinant ovalbumin (OVA) coupled MARX10 (MARX10-OVA) was used to measure antibody levels in C57BL/6 and homozygous B6.XCR1-lacZ mice serum following injection and for an *in vivo* cytotoxicity assay, MARX10-OVA was found to be highly effective in inducing CD8⁺ T cell cytotoxicity *in vivo* (Hartung et al., 2015, PMID: 25520399).

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.