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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-XCR1 [MARX10] Standard Size Ab03120-2.0

Isotype and Format: Mouse IgG2a, Kappa

Clone Number: MARX10

Alternative Name(s) of Target: mXCR1; Ccxcr1; Chemokine XC receptor 1; Lymphotactin receptor; SCM1 receptor; XC chemokine receptor 1; MARX10

UniProt Accession Number of Target Protein: Q9R0M1

Published Application(s): *in vivo*, FC, IHC

Published Species Reactivity: Rat, Mouse

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*.

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.

Application Notes: This antibody was used to stain cryostat sections (12 µm) 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).

Antibody First Published in: Bachem et al. Expression of XCR1 Characterizes the Batf3-Dependent Lineage of Dendritic Cells Capable of Antigen Cross-Presentation. *Front Immunol.* 2012 Jul 18;3:214.

[PMID:22826713](#)

Note on publication: XCR1 expression determines Batf3-dependent lineage of dendritic cells with a special capacity to cross-present antigen. The paper studies the expression of XCR1 on CD8⁺ dendritic cells using antibody MARX10 and its role in antigen presentation.

Product Form

Size:

200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

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

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.