Datasheet for ABIN2689046

anti-CXCR4 antibody

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Overview

Quantity:	0.1 mg
Target:	CXCR4
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Brand:	BD Pharmingen™
Immunogen:	GST-NCXCR4 fusion protein
Clone:	2B11-CXCR4
Isotype:	IgG2b kappa
Characteristics:	The 2B11/CXCR4 monoclonal antibody specifically reacts with mouse CD184, which is also known as CXC chemokine receptor, CXCR4. CXCR4 (previously known as Fusin and LESTR), a seven-transmembrane, G-protein-coupled receptor, is the specific receptor for CXC chemokines, SDF-1/CXCL12. Mouse CXCR4 shows 91 % homology at amino acid level with human CXCR4. CXCR4 is widely expressed by hematopoietic and non-hematopoietic cell types including neutrophils, monocytes, T cells, B cells, CD34-positive progenitor cells, endothelial cells, neurons and astrocytes. Human CXCR4 is used by T-tropic HIV-1 as a co-receptor for viral entry. The mouse CXCR4 gene has been mapped to chromosome 1. Detection of CXCR4 expression on BALB/c thymocytes by purified 2B11/CXCR4. BALB/c thymocytes were stained with 0.5 µg/test of Purified Rat anti-Mouse CD184 using 3-step staining protocol outlined below

Product Details

	and APC Rat anti-Mouse CD4 (Cat. No. 553051). The level of nonspecific staining was assessed by using Purified Rat IgG2b, κ Isotype Control(Cat. No. 553986). The quadrant markers for the bivariate dot plots were set based on the isotype control. Flow cytometry was performed on a FACScan™ Flow Cytometer . BD Pharmingen™ Purified Rat Anti-Mouse CD184 (CXCR4) - Purified - Clone 2B11/CXCR4 - Isotype Rat IgG2b, κ - Reactivity Ms - 0.1 mg
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	CXCR4
Alternative Name:	CD184 CXCR4 (CXCR4 Products)
Background:	Synonyms: CXCR4, C-X-C chemokine receptor type 4, Fusin, LESTR, PB-CKR, Sdf1r
Pathways:	Regulation of Cell Size, CXCR4-mediated Signaling Events

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C.

Publications

Product cited in:	De La Luz Sierra, Gasperini, McCormick, Zhu, Tosato: "Transcription factor Gfi-1 induced by G-

CSF is a negative regulator of CXCR4 in myeloid cells." in: **Blood**, Vol. 110, Issue 7, pp. 2276-85, (2007) (PubMed).

Schabath, Müller, Schubel, Kremmer, Lipp, Förster: "The murine chemokine receptor CXCR4 is tightly regulated during T cell development and activation." in: **Journal of leukocyte biology**, Vol. 66, Issue 6, pp. 996-1004, (2000) (PubMed).

Förster, Kremmer, Schubel, Breitfeld, Kleinschmidt, Nerl, Bernhardt, Lipp: "Intracellular and surface expression of the HIV-1 coreceptor CXCR4/fusin on various leukocyte subsets: rapid internalization and recycling upon activation." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 160, Issue 3, pp. 1522-31, (1998) (PubMed).

Heesen, Berman, Benson, Gerard, Dorf: "Cloning of the mouse fusin gene, homologue to a human HIV-1 co-factor." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 157, Issue 12, pp. 5455-60, (1997) (PubMed).

Bleul, Farzan, Choe, Parolin, Clark-Lewis, Sodroski, Springer: "The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and blocks HIV-1 entry." in: **Nature**, Vol. 382, Issue 6594, pp. 829-33, (1997) (PubMed).

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