Datasheet for ABIN110595

anti-CXCR4 antibody

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Overview

Quantity:	0.2 mg
Target:	CXCR4
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CXCR4 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Neutralization (Neut)

Product Details

Immunogen:	This polyclonal antibody, which reacts with both rat and mouse CXCR4, was generated using E. coli-expressed rat CXCR4 as an immunogen.
Specificity:	Cross-reactivity to CXCR4 of other species has not been determined.

Target Details

Target:	CXCR4
Alternative Name:	CXCR4 (CXCR4 Products)
Background:	CXCR4 (fusin) is one of the members in the seven-transmembrane G-protein-coupled chemokine receptor family. The full-length cDNA was isolated from a human spleen cDNA library1. Its ligand is chemokine stroma-derived factor (SDF). CXCR4 has been proved to be the co-receptor for HIV?s binding to CD4 through envelope glycoprotein gp 1202. In other cases, CXCR4 can even function as the only receptor for HIV-2?s binding to the CD4 ? host cells3.

Target Details

	Mouse monoclonal antibody (12G5) to CXCR4 has been shown to inhibit HIV infectivity and HIV-induced syncytium.
Pathways:	Regulation of Cell Size, CXCR4-mediated Signaling Events

Application Details

Application Notes:	The tested titer for Western blot is 1:2,000
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Storage:	4 °C

Publications

Product cited in:

Chen, Chemaly, Liang, Kho, Lee, Park, Altman, Schecter, Hajjar, Tarzami: "Effects of CXCR4 gene transfer on cardiac function after ischemia-reperfusion injury." in: **The American journal of pathology**, Vol. 176, Issue 4, pp. 1705-15, (2010) (PubMed).

Neusser, Lindenmeyer, Moll, Segerer, Edenhofer, Sen, Stiehl, Kretzler, Gröne, Schlöndorff, Cohen: "Human nephrosclerosis triggers a hypoxia-related glomerulopathy." in: **The American journal of pathology**, Vol. 176, Issue 2, pp. 594-607, (2010) (PubMed).

Kioi, Vogel, Schultz, Hoffman, Harsh, Brown: "Inhibition of vasculogenesis, but not angiogenesis, prevents the recurrence of glioblastoma after irradiation in mice." in: **The Journal of clinical investigation**, Vol. 120, Issue 3, pp. 694-705, (2010) (PubMed).

Shyu, Lin, Yang, Tzeng, Pang, Yen, Li: "Functional recovery of stroke rats induced by granulocyte colony-stimulating factor-stimulated stem cells." in: **Circulation**, Vol. 110, Issue 13, pp. 1847-54, (2004) (PubMed).

Petit, Szyper-Kravitz, Nagler, Lahav, Peled, Habler, Ponomaryov, Taichman, Arenzana-Seisdedos, Fujii, Sandbank, Zipori, Lapidot: "G-CSF induces stem cell mobilization by decreasing bone marrow SDF-1 and up-regulating CXCR4." in: **Nature immunology**, Vol. 3, Issue 7, pp. 687-94, (2002) (PubMed).

Images

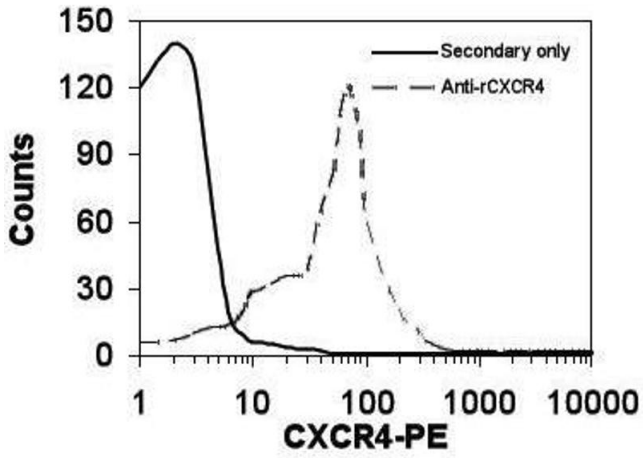

Image 1.