

Datasheet for ABIN730898

anti-CXCR4 antibody (AA 201-294) (PE)



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2 Publications

Overview

Quantity:	100 µL
Target:	CXCR4
Binding Specificity:	AA 201-294
Reactivity:	Human, Mouse, Rat, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CXCR4 antibody is conjugated to PE
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CXCR4
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rabbit, Rat
Predicted Reactivity:	Cow
Purification:	Purified by Protein A.

Target Details

Target:	CXCR4
Alternative Name:	CXCR4 (CXCR4 Products)
Background:	Synonyms: C-X-C chemokine receptor type 4, CXC-R4, CXCR-4, FB22, Fusin, HM89, LCR1,

Target Details

Leukocyte-derived seven transmembrane domain receptor, LESTR, Lipopolysaccharide-associated protein 3, LAP-3, LPS-associated protein 3, NPYRL, Stromal cell-derived factor 1 receptor, SDF-1 receptor, CD184, CXCR4

Background: Receptor for the C-X-C chemokine CXCL12/SDF-1 that transduces a signal by increasing intracellular calcium ion levels and enhancing MAPK1/MAPK3 activation. Acts as a receptor for extracellular ubiquitin, leading to enhanced intracellular calcium ions and reduced cellular cAMP levels. Involved in hematopoiesis and in cardiac ventricular septum formation. Also plays an essential role in vascularization of the gastrointestinal tract, probably by regulating vascular branching and/or remodeling processes in endothelial cells. Involved in cerebellar development. In the CNS, could mediate hippocampal-neuron survival. Acts as a coreceptor (CD4 being the primary receptor) for HIV-1 X4 isolates and as a primary receptor for some HIV-2 isolates. Promotes Env-mediated fusion of the virus. Binds bacterial lipopolysaccharide (LPS) et mediates LPS-induced inflammatory response, including TNF secretion by monocytes.

Gene ID:	7852
Pathways:	Regulation of Cell Size, CXCR4-mediated Signaling Events

Application Details

Application Notes:	FCM 1:20-100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Handling

Expiry Date: 12 months

Publications

Product cited in: Eweida, Flechtenmacher, Sandberg, Schulte, Schmidt, Kneser, Harhaus: "Systemically injected bone marrow mononuclear cells specifically home to axially vascularized tissue engineering constructs." in: **PloS one**, Vol. 17, Issue 8, pp. e0272697, (2022) ([PubMed](#)).

Li, Shen, Miao, Luan, Sun, Qiu: "Co-expression of uPAR and CXCR4 promotes tumor growth and metastasis in small cell lung cancer." in: **International journal of clinical and experimental pathology**, Vol. 7, Issue 7, pp. 3771-80, (2014) ([PubMed](#)).