

Anti-CXCR4 Antibody (30921)

Product Details

Ig Type:	Human IgG4(S228P)
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	30921
Purification:	Affinity-chromatography

Applications

Verified Activity:	The Binding Activity of Human CXCR4 with Anti-CXCR4 recombinant Antibody Activity: Measured by its binding ability in a functional ELISA. Immobilized Human CXCR4 at 10 µg/mL can bind Anti-CXCR4 recombinant antibody, the EC50 is 101.7-253.6 ng/mL.
Application:	ELISA

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human CXCR4 Protein
Antigen Species:	Human
Gene ID:	7852
Uniprot ID:	P61073
Synonyms:	WHIMS;HM89;WHIM;NPYRL;LAP3;NPYR;NPY3R;NPYY3R;LCR1;LAP-3;HSY3RR;FB22;LESTR;D2S201E;chemokine (C-X-C motif) receptor 4;CD184
Biology Area:	Immunology

Research 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. Involved in the AKT signaling cascade. Plays a role in regulation of cell migration, e.g. during wound healing. Acts as a receptor for extracellular ubiquitin; leading to enhanced intracellular calcium ions and reduced cellular cAMP levels. Binds bacterial lipopolysaccharide (LPS) et mediates LPS-induced inflammatory response, including TNF secretion by monocytes. 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. (Microbial infection) Acts as a coreceptor (CD4 being the primary receptor) for human immunodeficiency virus-1/HIV-1 X4 isolates and as a primary receptor for some HIV-2 isolates. Promotes Env-mediated fusion of the virus.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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