Datasheet for ABIN7170825

anti-CXCL12 antibody (AA 22-89)

1 Image

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Overview

Quantity:	100 µL
Target:	CXCL12
Binding Specificity:	AA 22-89
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CXCL12 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Recombinant Human Stromal cell-derived factor 1 protein (22-89AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Antigen Affinity purified & Affinity purified

Target Details

Target:	CXCL12
Alternative Name:	CXCL12 (CXCL12 Products)
Background:	Background: Chemoattractant active on T-lymphocytes, monocytes, but not neutrophils. Activates the C-X-C chemokine receptor CXCR4 to induce a rapid and transient rise in the level

Target Details

	of intracellular calcium ions and chemotaxis. Also binds to atypical chemokine receptor ACKR3, which activates the beta-arrestin pathway and acts as a scavenger receptor for SDF-1. SDF-1-beta(3-72) and SDF-1-alpha(3-67) show a reduced chemotactic activity. Binding to cell surface proteoglycans seems to inhibit formation of SDF-1-alpha(3-67) and thus to preserve activity on local sites. Acts as a positive regulator of monocyte migration and a negative regulator of monocyte adhesion via the LYN kinase. Stimulates migration of monocytes and T-lymphocytes through its receptors, CXCR4 and ACKR3, and decreases monocyte adherence to surfaces coated with ICAM-1, a ligand for beta-2 integrins. SDF1A/CXCR4 signaling axis inhibits beta-2 integrin LFA-1 mediated adhesion of monocytes to ICAM-1 through LYN kinase. Inhibits CXCR4-mediated infection by T-cell line-adapted HIV-1. Plays a protective role after myocardial infarction. Induces down-regulation and internalization of ACKR3 expressed in various cells. Has several critical functions during embryonic development, required for B-cell lymphopoiesis, myelopoiesis in bone marrow and heart ventricular septum formation. Aliases: 12-O-tetradecanoylphorbol 13-acetate repressed protein 1 antibody, AI174028 antibody, C-X-C motif chemokine 12 antibody, Chemokine (C-X-C motif) ligand 12 (stromal cell-derived factor 1) antibody, Chemokine (C-X-C motif) ligand 12 antibody, Chemokine CXC motif ligand 12 antibody, cxcl12 antibody, hIRH antibody, hSDF-1 antibody, Intercrine reduced in hepatomas antibody, IRH antibody, OTTHUMP00000019491 antibody, PBSF antibody, Pre-B cell growth-stimulating factor antibody, SCYB12 antibody, SDF 1 antibody, SDF-1 antibody, SDF-1-alpha(3-67) antibody, SDF-1a antibody, SDF-1b antibody, SDF1_HUMAN antibody, SDF1A antibody, SDF1B antibody, Stromal cell-derived factor 1 antibody, Stromal cell-derived factor 1 delta antibody, Stromal cell-derived factor 1 gamma antibody, Stromal cell-derived factor 1a antibody, Stromal cell-derived factor-1 alpha antibody, Thymic lymphoma cell-stimulating factor antibody, Tlsf antibody, TLSF-a antibody, TLSF-b antibody, Tlsfa antibody, Tlsfb antibody, TPAR1 antibody
UniProt:	P48061
Pathways:	Regulation of Cell Size, CXCR4-mediated Signaling Events, Negative Regulation of intrinsic apoptotic Signaling

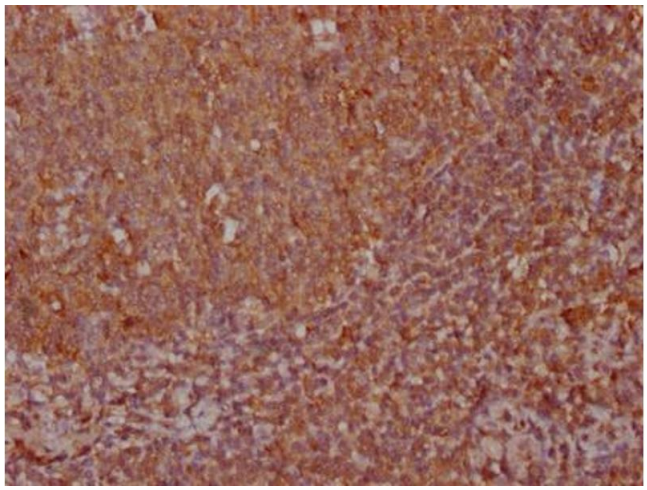
Application Details

Application Notes:	Recommended dilution: IHC:1:20-1:200,
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
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,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. IHC image of ABIN7170825 diluted at 1:100 and staining in paraffin-embedded human tonsil tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a Goat anti-rabbit IgG labeled by HRP and visualized using 0.05 % DAB.