Datasheet for ABIN6719467

anti-CXCL12 antibody (AA 24-93)

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Overview

Quantity:	100 µg
Target:	CXCL12
Binding Specificity:	AA 24-93
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CXCL12 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

Product Details

Purpose:	Anti-CXCL12 Antibody
Immunogen:	E. coli-derived human CXCL12 recombinant protein (Position: V24-M93).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-CXCL12 Antibody Picoband® (ABIN6719467). Tested in ELISA, IF, IHC applications. This antibody reacts with Human, Mouse, Rat.
Purification:	Immunogen affinity purified.

Target Details

Target:	CXCL12

Target Details

Alternative Name:	CXCL12 (CXCL12 Products)
Background:	Synonyms: Stromal cell-derived factor 1, SDF-1, hSDF-1, C-X-C motif chemokine 12, Intercrine reduced in hepatomas, IRH, hIRH, Pre-B cell growth-stimulating factor, PBSF, SDF-1-beta (3-72), SDF-1-alpha (3-67), CXCL12, SDF1, SDF1A, SDF1B Tissue Specificity: Isoform Alpha and isoform Beta are ubiquitously expressed, with highest levels detected in liver, pancreas and spleen. Isoform Gamma is mainly expressed in heart, with weak expression detected in several other tissues. Isoform Delta, isoform Epsilon and isoform Theta have highest expression levels in pancreas, with lower levels detected in heart, kidney, liver and spleen. Background: The stromal cell-derived factor 1 (SDF1), also known as C-X-C motif chemokine 12 (CXCL12), is a chemokine protein that in humans is encoded by the CXCL12 gene on chromosome 10. This antimicrobial gene encodes a stromal cell-derived alpha chemokine member of the intercrine family. The encoded protein functions as the ligand for the G-protein coupled receptor, chemokine (C-X-C motif) receptor 4, and plays a role in many diverse cellular functions, including embryogenesis, immune surveillance, inflammation response, tissue homeostasis, and tumor growth and metastasis. Mutations in this gene are associated with resistance to human immunodeficiency virus type 1 infections. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Weight:	11 kDa
Gene ID:	6387
UniProt:	P48061
Pathways:	Regulation of Cell Size, CXCR4-mediated Signaling Events, Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL Immunofluorescence, 5 µg/mL ELISA, 0.1-0.5 µg/mL 1. Begley, L. A., MacDonald, J. W., Day, M. L., Macoska, J. A. CXCL12 activates a robust transcriptional response in human prostate epithelial cells. J. Biol. Chem. 282: 26767-26774, 2007. 2. Greenbaum, A., Hsu, Y.-M. S., Day, R. B., Schuettpelz, L. G., Christopher, M. J., Borgerding, J. N., Nagasawa, T., Link, D. C. CXCL12 in early mesenchymal progenitors is required for haematopoietic stem-cell maintenance. Nature 495: 227-230, 2013.

Application Details

Comment:	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na_2HPO_4, 0.01 mg NaN_3.
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,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.