Product datasheet

Anti-SDF-1/CXCL12 Antibody

Catalog Number: *A00053-1*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-SDF-1/CXCL12 Antibody
Gene Name	CXCL12
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse CXCL12, which shares 96.2% and 95.5% amino acid (aa) sequence identity with human and rat CXCL12, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	11 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

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.

Reference

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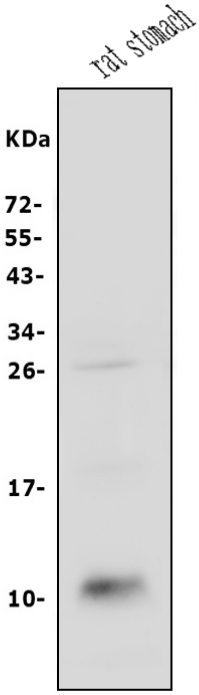
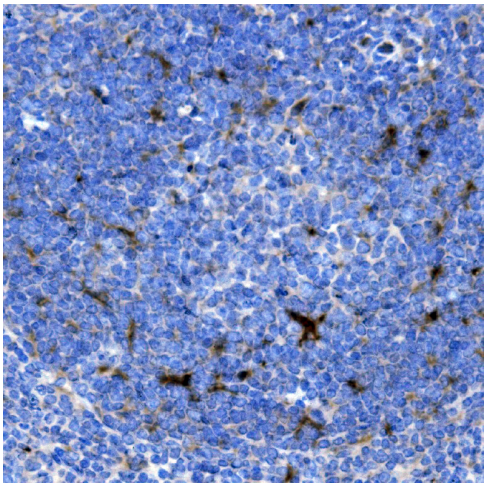
Anti-SDF-1/CXCL12 Antibody 被引用在2文献中。

Selected Validation Data



Western blot analysis of SDF-1/CXCL12 using anti-SDF-1/CXCL12 antibody (A00053-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: rat stomach tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-SDF-1/CXCL12 antigen affinity purified polyclonal antibody (A00053-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for SDF-1/CXCL12 at approximately 11 kDa. The expected band size for SDF-1/CXCL12 is at 11 kDa.



IHC analysis of SDF-1/CXCL12 using anti-SDF-1/CXCL12 antibody (A00053-1).
SDF-1/CXCL12 was detected in a paraffin-embedded section of mouse spleen tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-SDF-1/CXCL12 Antibody (A00053-1) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.