
Anti-Mouse/Rat CXCL12 beta (SDF-1 beta) Purified


Catalog Number: 14-7991

Also Known As: SDF1beta, SDF-1b, SDF1b

RUO: For Research Use Only

Product Information


Contents: Anti-Mouse/Rat CXCL12 beta (SDF-1 beta) Purified

 Catalog Number: 14-7991

Clone: Polyclonal


Host/Isotype: Rabbit IgG

Formulation: aqueous buffer, 0.09% sodium azide, contains carrier protein/stabilizer if necessary

 Temperature Limitation: Store at 2-8°C.

 Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The polyclonal antibody reacts with both mouse and rat CXCL12 β (SDF-1 β) and was generated using *E. coli*-expressed mouse CXCL12 β as an immunogen. CXCL12 β , also known as pre-B-cell growth-stimulating factor (PBSF) and stromal cell-derived factor-beta (SDF-1 β), is a 74-amino acid CXC chemokine originally cloned from a bone marrow stromal cell line. Targeted deletion of CXCL12 gene resulted in defects of B-cell lymphopoiesis and bone marrow myelopoiesis in mice. CXCL12 has been shown to be chemotactic for lymphocytes. In addition, CXCL12 was recently reported to be a ligand for CXCR4 (LESTR/fusin), a co-receptor for HIV-1 entry into T cells. CXCL12 binding to CXCR4 inhibits HIV-1 entry.

Applications Reported

This polyclonal can be used in immunoblotting (WB), immunoprecipitation, and immunohistochemistry. Cross-reactivity to CXCL12 β of other species has not been determined.

Applications Tested

To achieve best results, titrate antibody by dilution for each application as follows:

Western Blot 1:1000

Immunoprecipitation 1:300-500

Immunohistochemistry 1:100-500.

References

- Tashiro, K. et al. 1993. Signal sequence trap: a cloning strategy for secreted proteins and type I membrane proteins. *Science* 261:600-603.
- Nagasawa, T et al. 1994. Molecular cloning and structure of a pre-B-cell growth-stimulating factor. *Proc. Natl. Acad. Sci. USA* 91:2305-2309.
- Nagasawa, T. et al. 1996. Defects of B-cell lymphopoiesis and bone-marrow myelopoiesis in mice lacking the CXC chemokine PBSF/SDF-1. *Nature* 328:635-638.
- Bleul, C.C. et al. 1996. A highly efficacious lymphocyte chemoattractant, stromal cell-derived factor 1 (SDF-1). *J. EXP. Med.* 184:1101-1109.
- Bleul, C.C. et al. 1996. The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and blocks HIV-1 entry. *Nature* 382:829-833.
- Oberlin E. et al. 1996. The CXC chemokine SDF-1 is the ligand for LESTR/fusin and prevents infection by C-cell-line-adapted HIV-1. *Nature* 382:833-835.

Related Products

18-8816 Rabbit TrueBlot®: Anti-Rabbit IgG HRP

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