

CXCL12 alpha (SDF-1 alpha) Polyclonal Antibody, eBioscience™

Product Details

Size	50 µg
Species Reactivity	Mouse, Rat
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_468513

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	4 Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:500	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	1:100-1:500	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	-	1 Publication
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	1:300-1:500	-

Product Specific Information

Description: The polyclonal antibody reacts with both mouse and rat SDF-1 alpha. It was generated using E. coli-expressed N terminal amino acids 20-89 of mouse SDF-1 alpha as an immunogen. SDF-1 alpha (stromal cell-derived factor-1 alpha), also known as pre-B-cell growth-stimulating factor (PBSF), is a 70-amino acid CXC chemokine originally cloned from a bone marrow stromal cell line. Targeted deletion of the SDF-1 gene resulted in defects of B-cell lymphopoiesis and bone marrow myelopoiesis. SDF-1 has been shown to be chemotactic for lymphocytes. In addition, SDF-1 was recently reported to be a ligand for CXCR4 (LESTR/fusin), a co-receptor for HIV-1 entry into T cells. SDF-1 binding to CXCR4 inhibits HIV-1 entry.

Applications Reported: This polyclonal has been reported for use in immunoblotting (WB), immunoprecipitation, and immunohistochemistry. Cross-reactivity to SDF-1 alpha 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.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

13 References

Western Blot (4)

<p>The American journal of pathology</p> <p>Biliary Epithelial Cells Are Not the Predominant Source of Hepatic CXCL12.</p> <p>"Published figure using CXCL12 alpha (SDF-1 alpha) polyclonal antibody (Product # 14-7992-81) in Immunofluorescence"</p> <p>Authors: Saiman Y,Sugiyama T,Simchoni N,Spirli C,Bansal MB</p>	<p>Year 2015</p> <p>Species Mouse</p>
<p>Journal of neuroinflammation</p> <p>Chronic morphine and HIV-1 Tat promote differential central nervous system trafficking of CD3+ and Ly6C+ immune cells in a murine Streptococcus pneumoniae infection model.</p> <p>"14-7992 was used in Western Blotting to explore the role of systemic infection with Streptococcus pneumoniae in the recruitment of peripheral leukocytes into the central nervous system."</p> <p>Authors: Dutta R,Roy S</p>	<p>Year 2015</p> <p>Species Mouse</p>

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Immunohistochemistry (4)

<p>Frontiers in cell and developmental biology</p> <p>CXCL12-CXCR4 Interplay Facilitates Palatal Osteogenesis in Mice.</p> <p>"Published figure using CXCL12 alpha (SDF-1 alpha) polyclonal antibody (Product # 14-7992-81) in Immunohistochemistry"</p> <p>Authors: Verheijen N,Suttorp CM,van Rheden REM,Regan RF,Helmich MPAC,Kuijpers-Jagtman AM,Wagener FADTG</p>	<p>Year 2020</p> <p>Species Mouse</p>
<p>Journal of cellular and molecular medicine</p> <p>Follicular helper T cells recruit eosinophils into host liver by producing CXCL12 during Schistosoma japonicum infection.</p> <p>"14-7992-81 was used in Immunohistochemistry to uncover a previously unappreciated role of Tfh cells in promotion of the development of liver granuloma in schistosomiasis, making Tfh-CXCL12-eosinophil axis a potential target for intervention of schistosomiasis."</p> <p>Authors: Chen X,Xu Z,Wei C,Yang X,Xu L,Zhou S,Zhu J,Su C</p>	<p>Year 2020</p> <p>Species Mouse</p>

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- IHC (F) (1)
- ICC/IF (1)
- Flow (1)
- ELISA (1)

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