Human/Mouse CXCL12/SDF-1 Antibody

Monoclonal Mouse IgG_1 Clone # 79018

Catalog Number: MAB350

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse CXCL12/SDF-1α and CXCL12/SDF-1β in ELISAs.
Source	Monoclonal Mouse IgG_1 Clone # 79018
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human CXCL12/SDF-1α Lys22-Lys89 Accession # Q6ICW0
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

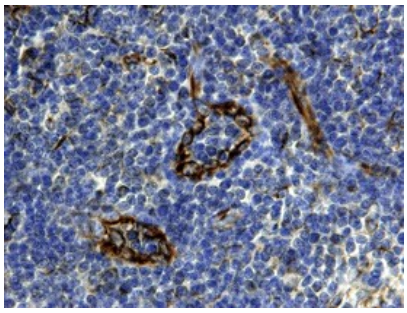
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Immunohistochemistry	8-25 µg/mL	See Below
Intracellular Staining by Flow Cytometry	0.25 µg/10^6 cells	See Below
Human CXCL12/SDF-1β Sandwich Immunoassay		**Reagent**
ELISA Capture	2-8 µg/mL	Human/Mouse CXCL12/SDF-1 Antibody (Catalog # MAB350)
ELISA Detection	0.1-0.4 µg/mL	Human CXCL12/SDF-1β Biotinylated Antibody (Catalog # BAF351)
Standard		Recombinant Human/Feline CXCL12/SDF-1β aa 22-93 (Catalog # 351-FS)
Human/Mouse CXCL12/SDF-1 Sandwich Immunoassay		**Reagent**
ELISA Capture	2-8 µg/mL	Human/Mouse CXCL12/SDF-1 Antibody (Catalog # MAB350)
ELISA Detection	0.1-0.4 µg/mL	Human/Mouse CXCL12/SDF-1 Biotinylated Antibody (Catalog # BAF310)
Standard		Recombinant Human/Feline/Rhesus Macaque CXCL12/SDF-1α (Catalog # 350-NS)
Standard		Recombinant Mouse CXCL12/SDF-1α (Catalog # 460-SD)

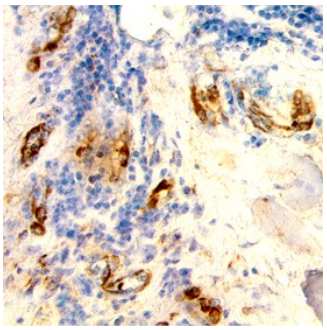
DATA

Immunohistochemistry



CXCL12/SDF-1 in Human Tonsil. CXCL12/SDF-1 was detected in immersion fixed paraffin-embedded sections of human tonsil using 15 µg/mL Human/Mouse CXCL12/SDF-1 Monoclonal Antibody (Catalog # MAB350) overnight at 4 °C. Tissue was stained with the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific labeling was localized to epithelial cells in cripts. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Immunohistochemistry



CXCL12/SDF-1 in Human Tonsil. CXCL12/SDF-1 was detected in immersion fixed paraffin-embedded sections of human tonsil using Human/Mouse CXCL12/SDF-1 Monoclonal Antibody (Catalog # MAB350) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

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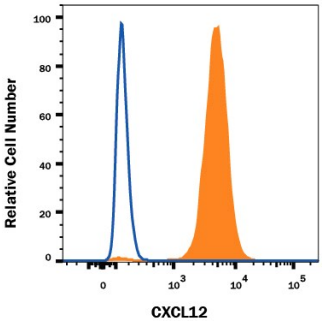
Intracellular Staining by Flow Cytometry



Detection of CXCL12/SDF-1 in HT1080 Human Cell Line by Flow Cytometry. HT1080 human fibrosarcoma cell line was stained with Mouse Anti-Human/Mouse CXCL12/SDF-1 Monoclonal Antibody (Catalog # MAB350, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012). View our protocol for Staining Intracellular Molecules.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CXCL12, also known as SDF-1, is a CXC chemokine that interacts with CXCR4. SDF-1α and SDF-1β are alternatively spliced isoforms of CXCL12. SDF-1β has an additional 4 amino acids at the carboxy-terminus.

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