

Mouse anti-Human CXCL12/SDF-1 Monoclonal Antibody | anti-CXCL12/SDF-1 antibody

CXCL12/SDF-1 (BSB-165)

CATALOG # AAA59357	HOST Mouse	REACTIVITY Human
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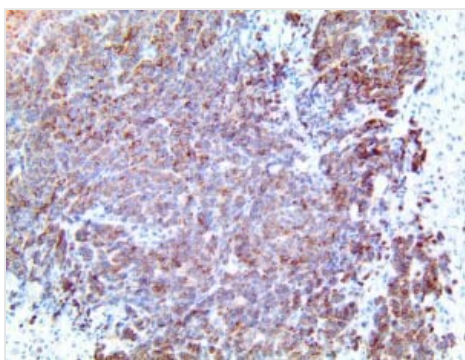
PRODUCT SYNONYMS

CXCL12/SDF-1; Monoclonal Antibody; CXCL12/SDF-1 (BSB-165); cxcl12; anti-cxcl12; sdf-1; anti-sdf-1; sdf1; anti-sdf1; cytokine c-x-c motif chemokine 12; anti-cytokine; anti-CXCL12/SDF-1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	BSB-165
Form/Format	Paraffin, Frozen CXCL12/SDF-1 is a mouse monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH7.5, containing BSA and sodium azide as a preservative.
Immunogen	Recombinant human CXCL12/SDF?1 alpha protein.
Control	Testis, Breast, Colon, Fallopian Tube, Tonsil, Transitional Cell Carcinoma, T ell Lymphoblastic Lymphoma
Localization	Cytoplasmic, Membranous
Preparation and Storage	Store at 2-8 degree C (Control Slides: Store at 20-25 degree C)

IMAGES



IHC (Immunohistochemistry)

CXCL12 Antibody Immunohistochemistry on an FFPE Her-2 Negative Breast Carcinoma Tissue

Antibody Type	Dilution	Volume/QT
Prediluted	Ready-To-Use	3.0 ml
Prediluted	Ready-To-Use	7.0 ml
Prediluted	Ready-To-Use	15.0 ml
Concentrated	1:25-1:100	0.1 ml
Concentrated	1:25-1:100	0.5 ml
Concentrated	1:25-1:100	1.0 ml
Control Slides		5

Dilution Info

ADDITIONAL INFORMATION

Related Product Information for anti-CXCL12/SDF-1 antibody	The cytokine C-X-C motif chemokine 12 (CXCL12) is synthesized by metastasis target tissues and has been shown to attract tumor cells that express the receptor, C-X-C chemokine receptor type 4 (CXCR4). CXCL12 is an inflammatory chemokine involved in Phospholipase C, MAPK, and PI3K-Akt-mTOR, and JAK/STAT pathways. CXCL12 interacts with its receptor CXCR4 to promote immunosuppression, chemotaxis, adhesion and migration, cell proliferation and survival. CXCL12 is involved in tumor protection and metastasis, where it induces angiogenesis and epithelial-to-mesenchymal transition and inhibits apoptosis and host immune response. CXCL12 is highly expressed in cancer-associated fibroblasts and tumor stroma, where it sequesters T cells and prevents them from infiltrating and attacking the tumor. Expression of CXCL12 and CXCR4 in breast, pancreatic, esophageal, lung, prostate, and ovarian Cancers increases angiogenesis and is associated with poor prognosis, especially in the presence of HER2-neu which inhibits degradation of the CXCL12/CXCR4 signaling complex. Expression of CXCL12 in organs like lungs, lymph nodes, bone marrow, liver increases likelihood of metastasis to those sites. CXCL12 antibody expression and activity is controlled by hypoxia, ACKR3 (CXCR7) receptor, and post-translational modifications; CXCL12 hypermethylation has been reported in gastric, breast, colon, lung, and prostate cancer. A large study found high CXCL12 antibody expression associated with reduced overall survival in patients with oesophagogastric, pancreatic and lung cancer, whereas in breast cancer patients high CXCL12 expression conferred an overall survival advantage.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cxcl12-sdf-1-antibody-clone-bsb-165-elisa/59357>