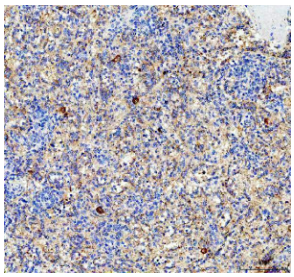
CXCL4 Antibody / Chemokine Ligand 4 Antibody (R30518)

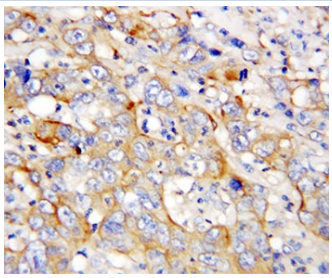
Catalog No.	Formulation	Size
R30518	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

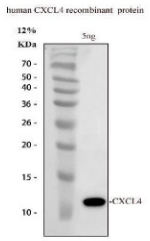
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P02776
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml
Limitations	This CXCL4 Antibody / Chemokine Ligand 4 Antibody is available for research use only.



CXCL4 Antibody Human Placenta IHC. Immunohistochemistry staining of FFPE human placenta tissue with CXCL4 Antibody at 2 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-CXCL4 antibody overnight at 4Â°C, followed by HRP-conjugated goat anti-rabbit IgG secondary antibody and DAB chromogen detection. CXCL4 Antibody / Chemokine Ligand 4 Antibody demonstrates staining consistent with PF4 expression and supports studies of platelet-derived chemokine signaling, inflammatory regulation and vascular biology pathways.



CXCL4 Antibody Human Lung Cancer IHC. Immunohistochemistry staining of FFPE human lung cancer tissue with CXCL4 Antibody. The tissue section was incubated with CXCL4 antibody, followed by HRP-conjugated secondary antibody and DAB chromogen detection. CXCL4 Antibody / Chemokine Ligand 4 Antibody demonstrates staining consistent with PF4 expression in the tumor microenvironment and supports studies of platelet-derived chemokine signaling, inflammatory regulation, immune cell communication and cancer-associated vascular biology pathways.



CXCL4 Antibody Recombinant Protein WB. Western blot testing of recombinant human CXCL4/PF4 protein with CXCL4 Antibody at 0.5 ug/ml. Lane contains 5 ng of purified recombinant human CXCL4 protein. A specific band was detected at approximately 11 kDa, consistent with the expected molecular weight of recombinant CXCL4/Platelet Factor 4. CXCL4 Antibody / Chemokine Ligand 4 Antibody demonstrates specific recognition of human CXCL4 and supports studies of platelet-derived chemokine signaling, platelet activation, inflammatory regulation and vascular biology pathways.

Description

CXCL4 Antibody / Chemokine Ligand 4 Antibody detects C-X-C motif chemokine ligand 4, also known as PF4 or Platelet Factor 4, a platelet-derived chemokine involved in immune signaling, vascular biology and platelet activation responses. CXCL4 is produced primarily by megakaryocytes and stored within platelet alpha granules before being rapidly released following platelet stimulation. As a member of the CXC chemokine family, CXCL4 participates in communication between platelets, immune cells and vascular tissues.

Chemokines regulate diverse biological processes by influencing cell migration, activation and communication within tissue environments. CXCL4 differs from many chemokines because of its strong association with platelets and its ability to interact with heparin-like glycosaminoglycans. These molecular interactions contribute to pathways involving coagulation, inflammation and immune regulation. CXCL4 Antibody is commonly used by researchers studying chemokine signaling, platelet-derived mediators, inflammatory pathways and vascular immune responses.

Research involving CXCL4 has highlighted its role as a link between platelet function and immune system regulation. Released CXCL4 can influence macrophage biology, leukocyte activity, cytokine responses and vascular remodeling processes. Investigation of this chemokine provides insight into how activated platelets contribute to inflammatory environments and communicate with immune cells during normal physiological processes and disease-related research models.

CXCL4 expression analysis is also valuable in hematology research because of its enrichment in megakaryocytes and platelet alpha granules. Studies of CXCL4 help characterize platelet lineage development, platelet activation states and secretion of platelet-derived signaling molecules. CXCL4 Antibody provides a useful tool for examining this specialized chemokine and understanding its contribution to platelet biology and immune regulation.

CXCL4 Antibody applications include detection of Chemokine Ligand 4 expression, localization and regulation in biological samples using techniques such as Western blot, immunohistochemistry, immunofluorescence and related protein analysis methods. NSJ Bioreagents provides CXCL4 Antibody / Chemokine Ligand 4 Antibody for researchers studying chemokine signaling pathways, platelet activation, inflammatory regulation and vascular biology.

CXCL4 Antibody detects a chemokine ligand involved in platelet activation, inflammatory signaling and immune regulation; additional platelet biology research tools are available on our PF4 Antibody / Platelet Activation Marker Antibody page.

Application Notes

The stated application concentrations are suggested starting points. Titration of the CXCL4 Antibody / Chemokine Ligand 4 Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 85-101 (DLQAPLYKKIIKKLLES-human) were used as the immunogen for this CXCL4 antibody.

Storage

After reconstitution, the CXCL4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

PF4 Antibody, Platelet Factor 4 Antibody, C-X-C Motif Chemokine Ligand 4 Antibody, Platelet Chemokine Antibody, Heparin Binding Chemokine Antibody, Platelet Alpha Granule Protein Antibody

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