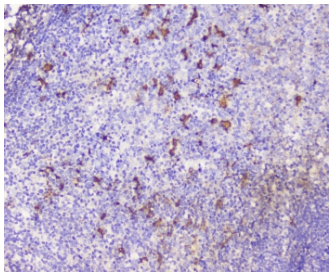
CXCL12 Antibody (RQ4559)

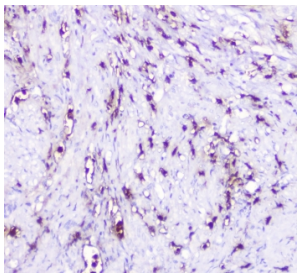
Catalog No.	Formulation	Size
RQ4559	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

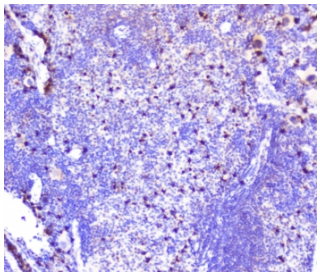
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P48061
Applications	Immunohistochemistry (FFPE): 1-2ug/ml Immunofluorescence: 5ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This CXCL12 antibody is available for research use only.



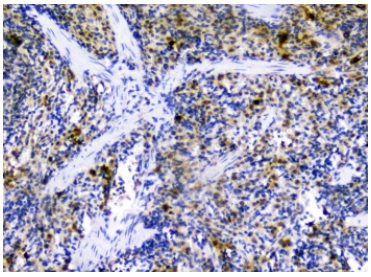
IHC staining of FFPE human tonsil with CXCL12 antibody at 0.5ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



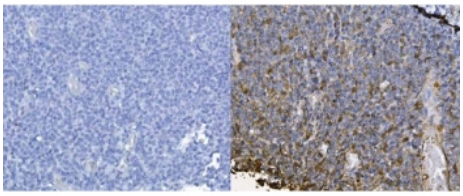
IHC staining of FFPE human endometrial carcinoma with CXCL12 antibody at 0.5ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



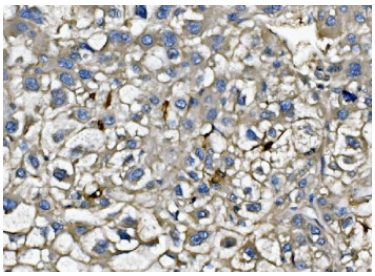
IHC staining of FFPE mouse spleen with CXCL12 antibody at 0.5ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



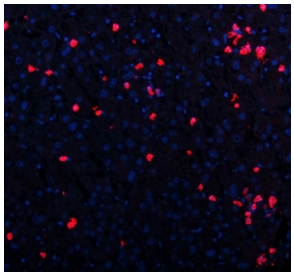
IHC staining of FFPE rat spleen with CXCL12 antibody at 0.5ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



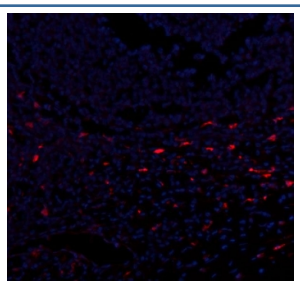
IHC staining of FFPE human lymphoma tissue with CXCL12 antibody (right) and negative control (left) at 1ug/ml. HIER: boil tissue sections in pH8 EDTA buffer for 10-20 min followed by cooling at RT for 20 min.



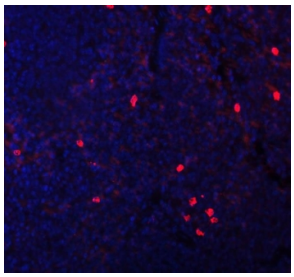
IHC staining of FFPE human liver cancer tissue with CXCL12 antibody at 1ug/ml. HIER: boil tissue sections in pH8 EDTA buffer for 10-20 min followed by cooling at RT for 20 min.



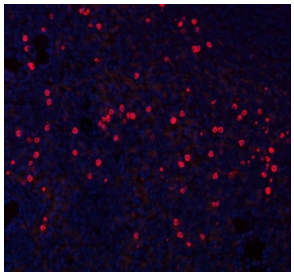
Immunofluorescent staining of FFPE human hepatitis tissue with CXCL12 antibody (red) and DAPI nuclear stain (blue). HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human tonsil tissue with CXCL12 antibody (red) and DAPI nuclear stain (blue). HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE mouse spleen tissue with CXCL12 antibody (red) and DAPI nuclear stain (blue). HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE rat spleen tissue with CXCL12 antibody (red) and DAPI nuclear stain (blue). HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

The stromal cell-derived factor 1 (SDF1), also known as C-X-C motif chemokine 12 (CXCL12), is a chemokine protein that in humans is encoded by the CXCL12 gene on chromosome 10. This antimicrobial gene encodes a stromal cell-derived alpha chemokine member of the intercrine family. The encoded protein functions as the ligand for the G-protein coupled receptor, chemokine (C-X-C motif) receptor 4, and plays a role in many diverse cellular functions, including embryogenesis, immune surveillance, inflammation response, tissue homeostasis, and tumor growth and metastasis. Mutations in this gene are associated with resistance to human immunodeficiency virus type 1 infections. Multiple transcript variants encoding different isoforms have been found for this gene.

Application Notes

Optimal dilution of the CXCL12 antibody should be determined by the researcher.

Immunogen

Amino acids V24-M93 from the human protein were used as the immunogen for the CXCL12 antibody.

Storage

After reconstitution, the CXCL12 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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