10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Rabbit Anti-CX3CL1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP52235

Specification

Rabbit Anti-CX3CL1 Polyclonal Antibody - Product Information

Application	**WB, IHC-P, FC**
Primary Accession	P78423
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**

Rabbit Anti-CX3CL1 Polyclonal Antibody - Additional Information

Gene ID 6376

Other Names
NTN; NTT; CXC3; CXC3C; SCYD1; ABCD-3; C3Xkine; fractalkine; neurotactin; C-X3-C motif chemokine 1; CX3C membrane-anchored chemokine; Small-inducible cytokine D1; CX3CL1; FKN; A-152E5.2

Dilution
WB~~1:100~1:500<br \>IHC-P~~1:100~1:500<br \>FC~~0.0486111111111

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

Rabbit Anti-CX3CL1 Polyclonal Antibody - Protein Information

Name CX3CL1 {ECO:0000303|PubMed:9024663}

Function
Chemokine that acts as a ligand for both CX3CR1 and integrins ITGAV:ITGB3 and ITGA4:ITGB1 (PubMed:9782118, PubMed:12055230, PubMed:23125415, PubMed:9931005, PubMed:21829356). The CX3CR1-CX3CL1 signaling exerts distinct functions in different tissue compartments, such as immune response, inflammation, cell adhesion and chemotaxis (PubMed:9024663, PubMed:9177350, PubMed:<a

href="http://www.uniprot.org/citations/9782118" target="_blank">9782118, PubMed:12055230). Regulates leukocyte adhesion and migration processes at the endothelium (PubMed:9024663, PubMed:9177350). Can activate integrins in both a CX3CR1-dependent and CX3CR1-independent manner (PubMed:23125415, PubMed:24789099). In the presence of CX3CR1, activates integrins by binding to the classical ligand-binding site (site 1) in integrins (PubMed:23125415, PubMed:24789099). In the absence of CX3CR1, binds to a second site (site 2) in integrins which is distinct from site 1 and enhances the binding of other integrin ligands to site 1 (PubMed:23125415, PubMed:24789099).

Cellular Location
Cell membrane; Single-pass type I membrane protein

Tissue Location
Expressed in the seminal plasma, endometrial fluid and follicular fluid (at protein level). Small intestine, colon, testis, prostate, heart, brain, lung, skeletal muscle, kidney and pancreas. Most abundant in the brain and heart

Rabbit Anti-CX3CL1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Rabbit Anti-CX3CL1 Polyclonal Antibody - Images

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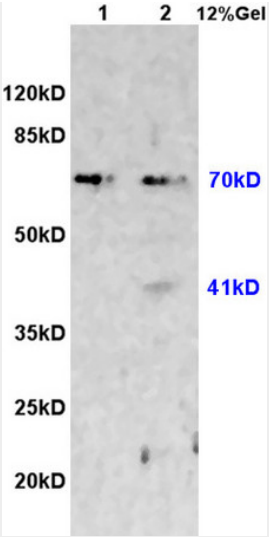
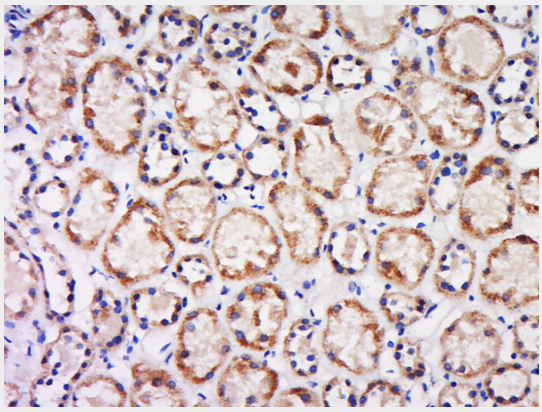
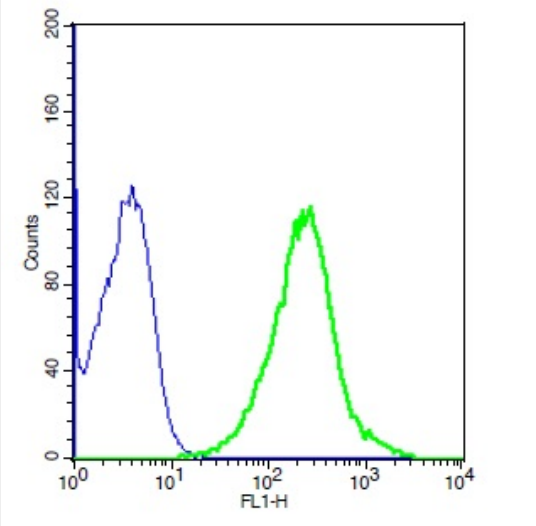


L1 rat heart lysates L2 rat brain lysates probed with Anti CX3CL1 Polyclonal Antibody, Unconjugated (AP52235) at 1:200 overnight at 4˚C. Followed by conjugation to secondary antibody at 1:3000 for 90 min at 37˚C. Predicted band 41kD. Observed band size:41/70kD.



Paraformaldehyde-fixed, paraffin embedded human kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (normal goat serum) at 37°C for 20min; Antibody incubation with Rabbit Anti-CX3CL1 Polyclonal Antibody, Unconjugated (AP52235) at 1:200 overnight at 4°C, followed by a conjugated secondary and DAB staining.



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Human A549 cell lysates probed with Rabbit Anti-CX3CL1 Polyclonal Antibody, Unconjugated AP52235 (green) at 1:10 for 30 minutes followed by a FITC conjugated secondary antibody compared to unstained cells (blue).

Rabbit Anti-CX3CL1 Polyclonal Antibody - Background

The soluble form is chemotactic for T-cells and monocytes, but not for neutrophils. The membrane-bound form promotes adhesion of those leukocytes to endothelial cells. May play a role in regulating leukocyte adhesion and migration processes at the endothelium. Binds to CX3CR1.