

CX3CL1 Polyclonal Antibody

Catalog Number PA5-23062

Product data sheet

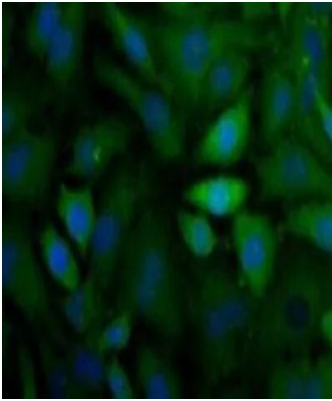
Details		Species Reactivity	
Size	100 µL	Species reactivity	Gerbil, Human, Mouse
Host/Isotope	Rabbit / IgG	Published species	Human, Not Applicable
Class	Polyclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (Frozen) (IHC (F))	Dilution * Assay-Dependent
Immunogen	A synthetic peptide made to an internal region of the human CX3CL protein (within residues 20-150).	Immunohistochemistry (Paraffin) (IHC (P))	1:250
Conjugate	Unconjugated	Western Blot (WB)	Assay-Dependent
Form	Liquid	Immunocytochemistry (ICC/IF)	1:100
Concentration	1.15 mg/mL	Published Applications	
Purification	Antigen affinity chromatography	Immunohistochemistry (IHC)	See 1 publications below
Storage buffer	PBS with 30% glycerol	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Contains	0.05% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Background/Target Information

Chemokines are a family of proteins associated with the trafficking of leukocytes in immune surveillance and inflammatory cell recruitment. They are classified based on the positions of key cysteine residues. CX3CL1 is a CX3C chemokine known to induce adhesion and migration of leukocytes mediated by a membrane-bound and soluble form respectively. Recent experiments have shown that CX3CL1 can suppress the production of nitrous oxide, interleukin-6, and TNF-α in activated microglia and neuronal cells, suggesting that it may act as an intrinsic inhibitor against neurotoxicity by activated microglia. Its receptor, CX3CR1, also functions as a co-receptor for HIV-1 and HIV-2 envelope fusion and virus infection, which can be inhibited by CX3CL1.

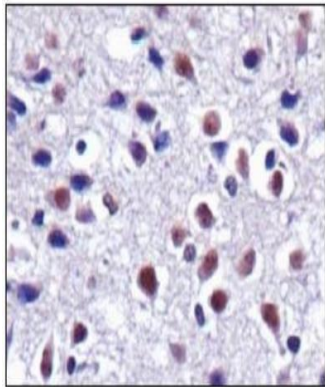
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Product Images For CX3CL1 Polyclonal Antibody



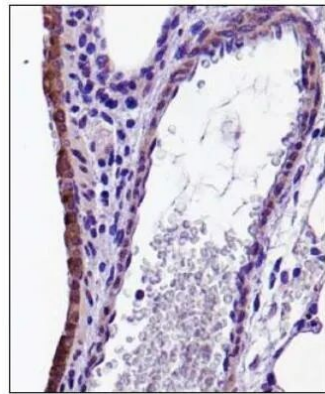
CX3CL1 Antibody (PA5-23062) in ICC/IF

Immunocytochemistry analysis of CX3CL1 in HeLa cells. Samples were incubated in CX3CL1 polyclonal antibody (Product # PA5-23062). CX3CL (green). Nuclei (Blue) are counterstained using Hoechst 33258..



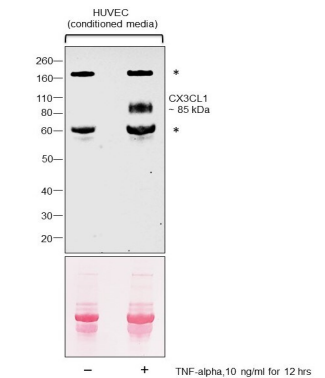
CX3CL1 Antibody (PA5-23062) in IHC (P)

Immunohistochemical analysis of CX3CL1 in mouse brain. Samples were incubated in CX3CL1 polyclonal antibody (Product # PA5-23062).



CX3CL1 Antibody (PA5-23062) in IHC (P)

Immunohistochemical analysis of CX3CL1 in mouse lung. Samples were incubated in CX3CL1 polyclonal antibody (Product # PA5-23062).



CX3CL1 Antibody (PA5-23062) in WB

Western blot was performed using Anti-CX3CL1 Polyclonal Antibody (Product # PA5-23062) and a 85 kDa band corresponding to soluble cleaved form of CX3CL1 was observed across tested cell line along with uncharacterized (*) bands at ~180 kDa and 60 kDa. Conditioned media (20 µg lysate) of HUVEC (Lane 1), HUVEC treated with TNF-alpha, 10 ng/mL for 12 hrs (Lane 2) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1,000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

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PubMed References For CX3CL1 Polyclonal Antibody

1 Immunohistochemistry References

Species / Dilution	Summary
	PA5-23062 was used in Immunohistochemistry to suggest that human microglia may be a source of infection for neuronal populations and sustain Japanese encephalitis virus (JEV) brain pathogenesis in long-term infection.
Human / Not Cited	Scientific reports (2019; 9:) "CX ₃ CR1-CX ₃ CL1-dependent cell-to-cell Japanese encephalitis virus transmission by human microglial cells." Author(s):Lannes N,Garcia-Nicolàs O,Démoulins T,Summerfield A,Filgueira L PubMed Article URL: http://dx.doi.org/10.1038/s41598-019-41302-1

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