

Product Datasheet

CX3CL1/Fractalkine Antibody - BSA Free NBP1-49539

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-49539

CX3CL1/Fractalkine Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.15 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol

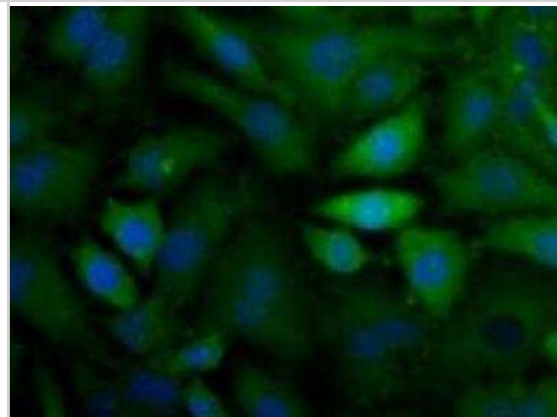
Product Description	
Host	Rabbit
Gene ID	6376
Gene Symbol	CX3CL1
Species	Human, Mouse, Gerbil
Reactivity Notes	Use in Gerbil reported in scientific literature (PMID:31524247).
Immunogen	A genomic peptide made to an internal region of the human CX3CL protein (within residues 20-150). [Swiss-Prot P78423]
Notes	Manufactured by Genomic Antibody Technology™. GAT FAQs

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot reported in scientific literature (PMID 31524247), Immunohistochemistry 1:250, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:250, Immunohistochemistry-Frozen reported in scientific literature

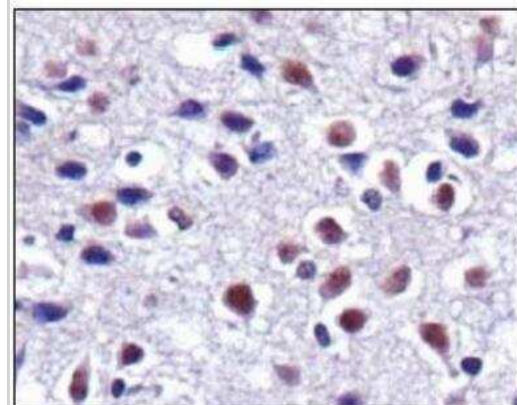


Images

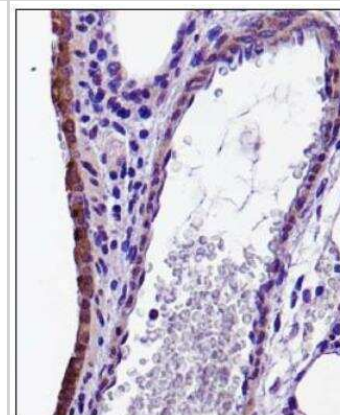
Immunocytochemistry/Immunofluorescence: CX3CL1/Fractalkine Antibody [NBP1-49539] - Analysis of CX3CL (green) in HeLa cells using NBP1-49539. Nuclei (blue) are counterstained using Hoechst 33258.



Immunohistochemistry: CX3CL1/Fractalkine Antibody [NBP1-49539] - Analysis of CX3CL in mouse brain.



Immunohistochemistry: CX3CL1/Fractalkine Antibody [NBP1-49539] - Analysis of CX3CL in mouse lung



Publications

Xu K, Chen S, Xie L, et al. Local Macrophage-Related Immune Response Is Involved in Cochlear Epithelial Damage in Distinct Gjb2-Related Hereditary Deafness Models *Frontiers in cell and developmental biology* 2020-01-11 [PMID: 33505961]

Cao P, Chen C, Liu A Et Al. Early-life inflammation promotes depressive symptoms in adolescence via microglial engulfment of dendritic spines *Neuron* 2021-06-26 [PMID: 34233151] (WB)

Ahn J H, Kim D W et al. Expression changes of CX3CL1 and CX3CR1 proteins in the hippocampal CA1 field of the gerbil following transient global cerebral ischemia. *Int J Mol Med* 2019-01-09 [PMID: 31524247] (IF/IHC, WB, Gerbil)

Details:

Meriones unguiculatus (Mongolian gerbil)

Schenkel JM, Fraser KA, Vezys V, Masopust D. Sensing and alarm function of resident memory CD8+ T cells. *Nat Immunol.* [PMID: 23542740] (IHC-Fr, ICC/IF, Mouse)

Details:

Citation using the Azide Free form of this antibody.



Procedures

Immunohistochemistry-paraffin embedded sections protocol specific for CX3CL Antibody (NBP1-49539)

CX3CL1/Fractalkine Antibody:

Immunohistochemistry-paraffin embedded sections

Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer pH 6.0 then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench top for 30 minutes.

Staining:

1. Wash sections in dH₂O three times for 5 minutes each.
2. Wash section in wash buffer (1X PBS/0.1% Tween-20 (1X PBST)) for 5 minutes.
3. Block each section with 100-400 ul blocking solution (1X PBST, 5% goat serum) for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul primary antibody diluted in 1X PBST, 5% goat serum to each section. Incubate overnight at 4C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated secondary antibody, diluted in 1X PBST, 5% goat serum. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Striavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in dH₂O.
12. Counterstain sections in hematoxylin.
13. Wash sections in dH₂O two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.

Immunocytochemistry/Immunofluorescence Protocol for CX3CL1 Antibody (NBP1-49539)

CX3CL1/Fractalkine Antibody:

Immunocytochemistry Protocol

Culture cells to appropriate density in 35mm culture dishes or 6-well plates.

1. Pull off culture medium with and add 10% formalin to the dish. Fix at room temperature for 30 minutes..
2. Take off the formalin and add ice cold methanol (kept in well sealed bottle in -20C). Incubate for 5-10 minutes.
3. Take off methanol and add PBS (You can add 0.1% Tween-20 to PBS used here and all subsequent steps), be sure to not let the specimen dry out. Wash 3 times 10 minutes before proceeding to blocking step.
4. To block nonspecific antibody binding incubate in 10% normal goat serum for a minimum of 1 hr at room temp. Cells can also block overnight at 4C for this step.
5. Add primary antibody at appropriate dilution and incubate at room temp for 2 hrs or overnight at room temp.
6. Remove primary antibody and replace with PBS. Wash 3 x 10 min in PBS.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hr at room temperature
8. Remove antibody and replace with PBS, wash 1 x 10 min in PBS. Add Hoechst 33258 to PBS at 1:25,000 and incubate for 10 min. Wash a third time with PBS for 10 min (total of 3X10min PBS washes).
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide and parafilm. Cells can also be coverslipped using Fluoromount. If storing coverslip be sure to seal the edges with clear nail polish.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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