

Datasheet for 600-401-MN2**Cxcl1 Antibody****Overview**

Description:	Anti-Cxcl1 (RABBIT) Antibody - 600-401-MN2
Item No.:	600-401-MN2
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	Cxcl1 encodes a member of the CXC subfamily of chemokines. The encoded protein is a secreted growth factor that signals through the G-protein coupled receptor, CXC receptor 2. It has chemotactic activity for neutrophils and contributes to neutrophil activation during inflammation. Hematopoietic chemokine, which, in vitro, suppresses hematopoietic progenitor cell proliferation. KC(5-72) shows a highly enhanced hematopoietic activity. Anti-Cxcl1 Antibody is useful for researchers interested in Kaposi Sarcoma, H. Pylori Infections, CCR5 and NOD-like receptor pathways, and Chemokine activities.
Synonyms:	Growth-regulated alpha protein, C-X-C motif chemokine 1, Platelet-derived growth factor-inducible protein KC, Secretory protein N51, KC(5-72), Hematopoietic synergistic factor, HSF, KC-T, Cxcl1, Gro, Gro1, Mgsa, Scyb1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Cxcl1
Reactivity:	Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Cxcl1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a C-terminal portion of mouse Cxcl1 conjugated to Keyhole Limpet Hemocyanin (KLH).
Purity/Specificity:	This affinity purified antibody is directed against mouse Cxcl1. This product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with the antigen based on 100% homology with the immunizing sequence to mouse.

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-Cxcl1 Antibody has been tested in ELISA, WB, and IHC. Expect a band at ~10.3kDa in western blot using appropriate tissues and lysates. Positive control used: mouse spleen and lung in Western blot and immunohistochemistry.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000-1:50,000
IHC:	1:300 with antigen retrieval with citrate-based solution with a pH of 6 for 20 minutes
WB:	1-5.0 µg/ml

Formulation

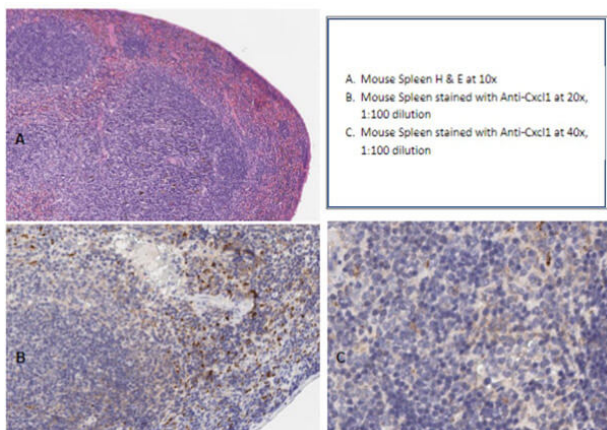
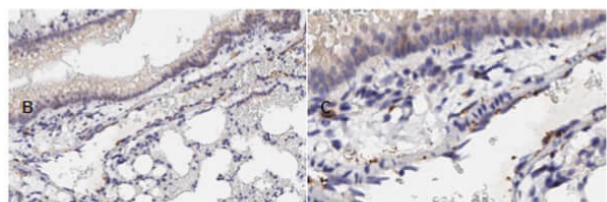
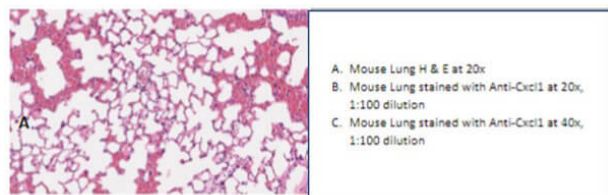
Physical State:	Liquid (sterile filtered)
Concentration:	0.97 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

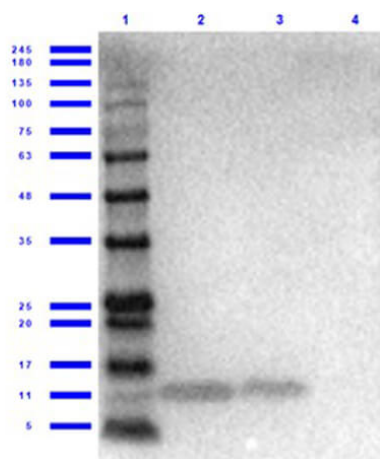
Immunohistochemistry of Rabbit Anti-Cxcl1 Antibody.

Tissue: Mouse Lung. Fixative: None. Antigen Retrieval: HIER using Citrate Buffer for 20 mins. Primary Antibody: Anti-Cxcl1 at 1:100 for 30 mins at RT. Secondary Antibody: Anti-Rabbit Poly HRP-IgG Ready to Use for 8 mins at RT. Counter stain: Hematoxylin. Substrate: DAB. Results: shows moderate cytoplasmic staining in vascular endothelial cells, perivascular and peribronchiolar mononuclear cells and spindle cells (fibroblasts) at 1:100 dilution. There is intense cross reactivity with smooth muscle surrounding the bronchi and bronchioles.

Immunohistochemistry

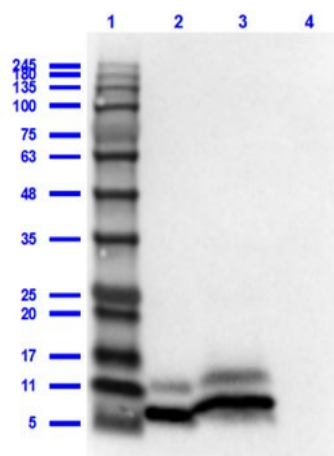
Immunohistochemistry of Rabbit Anti-Cxcl1 Antibody.

Tissue: Mouse Spleen. Fixative: None. Antigen Retrieval: HIER using Citrate Buffer for 20 mins. Primary Antibody: Anti-Cxcl1 at 1:100 for 30 mins at RT. Secondary Antibody: Anti-Rabbit Poly HRP-IgG Ready to Use for 8 mins at RT. Counter stain: Hematoxylin. Substrate: DAB. Results: shows moderate cytoplasmic staining in vascular endothelial cells, mononuclear cells within the red pulp and occasional spindle cells (fibroblasts) at 1:100 dilution. However, there is marked cross reactivity with hemosiderin-laden macrophages that often interfere with determining the specifically stained cell population.



Western Blot

Western Blot of Rabbit Anti-Cxcl1 Antibody. Lane 1: Opal Prestained Molecular Weight Marker (p/n MB-210-0500). Lane 2: Mouse Spleen Lysate (p/n W10-000-T029) [+]. Lane 3: Mouse Lung Lysate (p/n W10-000-MQ1) [+]. Lane 4: Mouse Testis Lysate (p/n W10-000-GZ2) [-]. Load: 35µg/lane lysate. Primary Antibody: Anti-Cxcl1 at 5µg/mL overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG HRP (p/n 611-103-122) at 1:70,000 for 30 mins at RT. Block: 5% BLOTTO (p/n B501-0500). Predicted MW: ~11kDa. Observed MW: ~11kDa.



Western Blot

Western Blot of Rabbit Anti-Cxcl-1 Antibody. Lane 1: Opal Prestained Molecular weight Marker (p/n MB-210-0500). Lane 2: rec. Cxcl1 protein [0.05µg]. Lane 3: rec. Cxcl1 protein/A431 WCL (p/n W09-000-361) [0.05µg/35µg]. Lane 4: A431 WCL (p/n W09-000-361) [35µg]. Primary Antibody: Anti-Cxcl1 Antibody at 5µg/mL overnight at 2-8°C. Secondary Antibody: Goat anti-Rabbit IgG HRP (p/n 611-103-122) at 1:70,000 for 30 mins at RT. Block: 5% BLOTTO Buffer (p/n B501-0500). Predicted MW: rec. ~7.8kDa, endogenous ~10kDa. Observed MW: ~8kDa, ~11kDa.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.