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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. Hematoregulatory 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

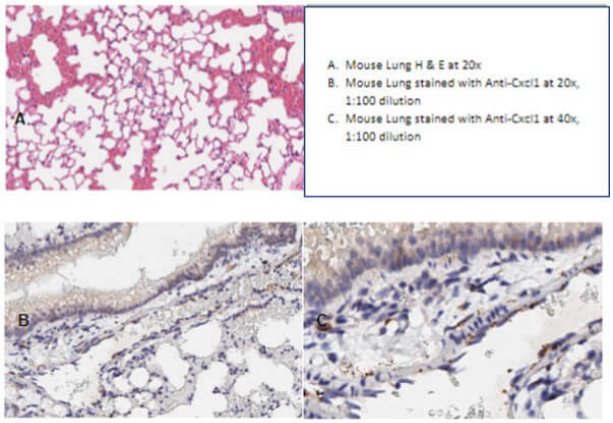
Physical State:	Liquid (sterile filtered)
Concentration:	0.97 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

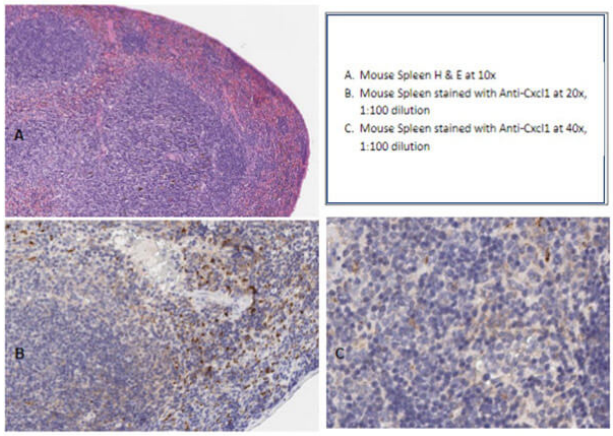
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several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

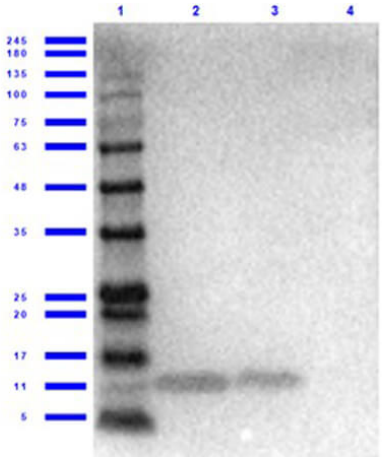
Images



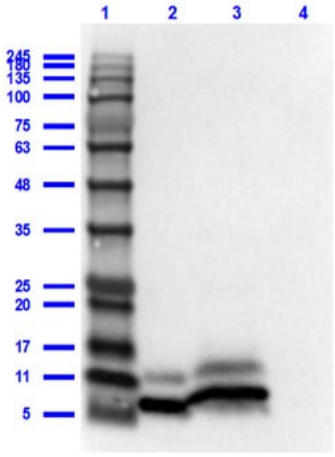
Immunohistochemistry
Immunohistochemistry of Rabbit Anti-Cxcl1 Antibody. Tissue: Mouse Lung. Fixative: None. Antigen Retrieval: HIER using Citrate Buffer for 20 mins. Primary Antibody: Anti-Cxcl1 at 1:100 for 30 mins at RT. Secondary Antibody: Anti-Rabbit Poly HRP-IgG Ready to Use for 8 mins at RT. Counter 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 sounding 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 dilutionspindle 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.

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