

Datasheet for ABIN3044150
anti-CXCL1 antibody (C-Term)



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Overview

Quantity:	100 µg
Target:	CXCL1
Binding Specificity:	AA 99-107, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CXCL1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Growth-regulated alpha protein(CXCL1) detection. Tested with WB in Human.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human GRO alpha(99-107aa KMLNSDKSN).
Sequence:	KMLNSDKSN
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Growth-regulated alpha protein(CXCL1) detection. Tested with WB in Human.</p> <p>Gene Name: chemokine(C-X-C motif) ligand 1(melanoma growth stimulating activity, alpha)</p> <p>Protein Name: Growth-regulated alpha protein</p>

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: CXCL1

Alternative Name: CXCL1 ([CXCL1 Products](#))

Background: CXCL1(Chemokine, CXC motif, Ligand 1), also called GRO1, SCYB1, GROA or MSGA, is a small cytokine belonging to the CXC chemokine family that was previously called GRO1 oncogene, GROalpha, KC, Neutrophil-activating protein 3(NAP-3) and melanoma growth stimulating activity, alpha(MSGA-alpha). In humans, this protein is encoded by the CXCL1 gene. The CXCL1 gene is mapped on 4q13.3. CXCL1 is secreted by human melanoma cells, has mitogenic properties and is implicated in melanoma pathogenesis. CXCL1 is expressed by macrophages, neutrophils and epithelial cells, and has neutrophil chemoattractant activity. CXCL1 plays a role in spinal cord development by inhibiting the migration of oligodendrocyte precursors and is involved in the processes of angiogenesis, inflammation,wound healing, and tumorigenesis. Signaling through Cxcr2, Cxcl1 inhibited oligodendrocyte precursor migration. The migrational arrest was rapid, reversible, and concentration dependent, and it reflected enhanced cell/substrate interactions. White matter expression of Cxcl1 was temporospatially regulated. Others contribute to aggressive growth selectivity in the lung. Among the lung metastasis signature genes identified, several, including CXCL1, were functionally validated.

Synonyms: C-X-C motif chemokine 1 antibody|Chemokine(C X C motif) ligand 1 antibody|Chemokine(C-X-C motif) ligand 1(melanoma growth stimulating activity, alpha) antibody|chemokine(C-X-C motif) ligand 1 antibody|Chemokine ligand 1 antibody|CINC-1 antibody|Cxcl 1 antibody|Cxcl1 antibody|Cytokine-induced neutrophil chemoattractant 1 antibody|Fibroblast secretory protein antibody|Fsp antibody|Gro 1 antibody|Gro A antibody|GRO alpha antibody|GRO antibody|GRO protein, alpha antibody|GRO-alpha(1-73) antibody|GRO-alpha(6-73) antibody|Gro1 antibody|GRO1 oncogene(melanoma growth stimulating activity, alpha) antibody|GRO1 oncogene(melanoma growth-stimulating activity) antibody|Gro1 oncogene antibody|GroA antibody|GROA_HUMAN antibody|Growth regulated protein alpha antibody|Growth regulated protein GRO antibody|KC antibody|KC chemokine, mouse, homolog of antibody|Melanoma growth stimulatory activity alpha antibody|Melanoma growth stimulatory activity antibody|Melanoma growth stimulatory activity, alpha antibody|MSGA a antibody|MSGA alpha antibody|MSGA antibody|MSGA-a antibody|N51 antibody|NAP 3 antibody|NAP-3 antibody|NAP3 antibody|Neutrophil activating protein 3 antibody|Neutrophil-activating protein 3 antibody|Platelet-derived growth factor-inducible protein KC antibody|Scyb

Target Details

1 antibody|SCYB1 antibody|Secretory protein N51 antibody|Small inducible cytokine subfamily B, member 1 antibody

UniProt: [P09341](#)

Pathways: [Autophagy](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities.
Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months

Publications

Product cited in:

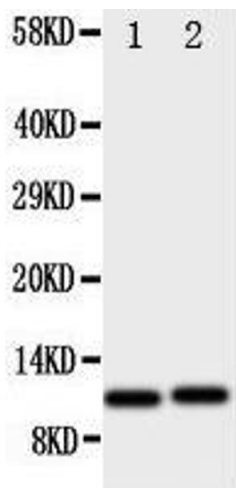
Xu, Zhu, Zhang, Tian, Zhang, Wu, Gao: "NF κ B-mediated CXCL1 production in spinal cord astrocytes contributes to the maintenance of bone cancer pain in mice." in: **Journal of neuroinflammation**, Vol. 11, pp. 38, (2014) ([PubMed](#)).

Chen, Park, Xie, Berta, Nedergaard, Ji: "Connexin-43 induces chemokine release from spinal cord astrocytes to maintain late-phase neuropathic pain in mice." in: **Brain : a journal of neurology**, Vol. 137, Issue Pt 8, pp. 2193-209, (2014) ([PubMed](#)).

Cao, Zhang, Xie, Jiang, Ji, Gao: "Chemokine CXCL1 enhances inflammatory pain and increases NMDA receptor activity and COX-2 expression in spinal cord neurons via activation of CXCR2." in: **Experimental neurology**, Vol. 261, pp. 328-36, (2014) ([PubMed](#)).

Zhang, Cao, Zhang, Ji, Gao: "Chemokine contribution to neuropathic pain: respective induction of CXCL1 and CXCR2 in spinal cord astrocytes and neurons." in: **Pain**, Vol. 154, Issue 10, pp. 2185-97, (2013) ([PubMed](#)).

Images



Western Blotting

Image 1.