



Anti-CXCL1 monoclonal antibody, clone 30437 (DCABY-3933)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Antigen Description | CXCL1/GRO alpha, also known as KC in mouse and CINC-1 in rat, is a member of the CXC family of chemokines. Human CXCL1/GRO alpha is 107 amino acids (aa) in length with a predicted molecular weight of 11 kDa. The mouse and rat orthologs share 57% and 59% amino acid sequence identity with the human protein, respectively. Genome-wide analysis suggests that the protein encoded by the mouse Cxcl3 gene is homologous to human CXCL1/GRO alpha protein. Human CXCL1/GRO alpha can be cleaved into three isoforms CXCL1/GRO alpha (aa 4-73), CXCL1/GRO alpha (aa 5-73), and CXCL1/GRO alpha (aa 6-73) which show higher activity than the full length protein. CXCL1/GRO alpha is secreted by mast cells and macrophages whereupon it acts as a chemoattractant for neutrophils. |
| Specificity | Detectshuman CXCL1/GRO alpha/KC/CINC-1 in ELISAs and Western blots. In Western blots, this antibody shows approximately 20%cross-reactivity with recombinant human (rh) CXCL2/GRO beta and rhCXCL3/GRO gamma and no cross-reactivity with recombinant rat (rr)CINC-1, rrCINC-2 alpha , rrCINC-2 beta, rrCINC-3, rhMIP-1 alpha , recombinant mouse(rm)MIP-1 alpha , rmMIP-1 beta, rmMIP-1 beta, rhMIP-1 delta, rmMIP-1 gamma, rmMIP-2, rhMIP-3 alpha , rmMIP-3 alpha , rrMIP-3 alpha , rhMIP-3 beta, or rmMIP-3 beta. |
| Immunogen | E. coli-derived recombinant human CXCL1/GRO alpha/KC/CINC-1 |
| Isotype | IgG2b |
| Source/Host | Mouse |
| Species Reactivity | Human |
| Clone | 30437 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Conjugate | Unconjugated |

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| Applications | Western Blot, ELISA Capture (Matched Pair), Intracellular Staining by Flow Cytometry, Neutralization |
| Format | Liquid |
| Size | 500 µg |
| Buffer | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. |
| Preservative | None |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month from date of receipt, 2 to 8 °C, reconstituted. 6 months from date of receipt, -20 to -70 °C, reconstituted. |

GENE INFORMATION

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| Gene Name | CXCL1 chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha) [Homo sapiens (human)] |
| Official Symbol | CXCL1 |
| Synonyms | CXCL1; chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha); FSP; GRO1; GROa; MGSA; NAP-3; SCYB1; MGSA-a; growth-regulated alpha protein; MGSA alpha; GRO-alpha(1-73); C-X-C motif chemokine 1; fibroblast secretory protein; neutrop |
| Entrez Gene ID | 2919 |
| Protein Refseq | NP_001502 |
| UniProt ID | P09341 |
| Chromosome Location | 4q21 |
| Pathway | Amoebiasis; Chemokine receptors bind chemokines; Chemokine signaling pathway; Class A/1 (Rhodopsin-like receptors); Cytokine-cytokine receptor interaction; Cytokines and Inflammatory Response; Epithelial cell signaling in Helicobacter pylori infection; G |
| Function | chemokine activity; enzyme activator activity; growth factor activity; receptor binding; |