



Anti-CXCL1 polyclonal antibody [Biotin] (DPABY-362)

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

PRODUCT INFORMATION

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	Detects mouse CXCL1/GRO alpha/KC/CINC-1 in ELISAs and Western blots. In sandwich immunoassays, less than 40% cross-reactivity with recombinant rat (rr) CINC-1 is observed and less than 0.05% cross-reactivity with rrCINC-2 alpha, rrCINC-2 beta, rmCRG-2, rmMIG, and rmMIP-2 is observed.
Immunogen	E. coli-derived recombinant mouse CXCL1/KC . Arg20-Lys96 Accession Number P12850
Isotype	IgG
Source/Host	Goat
Species Reactivity	Mouse
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	Western Blot, ELISA Detection (Matched Pair)
Format	Liquid

Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
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, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Cxcl1 chemokine (C-X-C motif) ligand 1 [Mus musculus (house mouse)]
Official Symbol	CXCL1
Synonyms	CXCL1; chemokine (C-X-C motif) ligand 1; KC; Fsp; N51; gro; Gro1; Mgsa; Scyb1; growth-regulated alpha protein; KC/GR)-alpha; KC/GRO-alpha; GRO1 oncogene; alpha-chemokine; secretory protein N51; C-X-C motif chemokine 1; platelet-derived growth factor-induc
Entrez Gene ID	14825
Protein Refseq	NP_032202
UniProt ID	A2RTH0
Chromosome Location	5 E-F; 5 44.78 cM
Pathway	Chemokine receptors bind chemokines; Chemokine signaling pathway; Class A/1 (Rhodopsin-like receptors); Cytokine-cytokine receptor interaction; Cytokines and Inflammatory Response (BioCarta); G alpha (i) signalling events; GPCR downstream signaling; GPCR
Function	chemokine activity; cytokine activity; growth factor activity;