bio-techne[®]

Human/Primate CXCL1/GROα/KC/CINC-1

Antibody

RDSYSTEMS

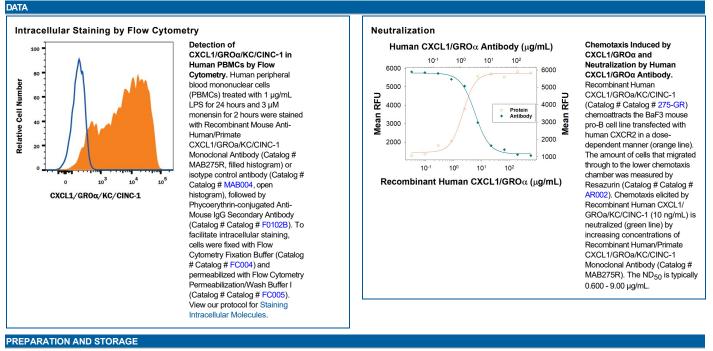
Recombinant Monoclonal Mouse IgG_{2B} Clone # 20326R

Catalog Number: MAB275R

DESCRIPTION	
Species Reactivity	Human/Primate
Specificity	Detects human and primate CXCL1/GROα/KC/CINC-1 in direct ELISAs.
Source	Recombinant Monoclonal Mouse IgG _{2B} Clone # 20326R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	E. coli-derived recombinant human CXCL1/GROα/KC/CINC-1
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

		ion. General Protocols are available in the Technical Information section on our website.	
	Recommended Concentration	Sample	
Intracellular Staining by Flow Cytometry	0.25 µg/10 ⁶ cells	See Below	
Human/Primate CXCL1/GROα Sandwich Im	munoassay	Reagent	
ELISA Capture	2-8 µg/mL	Human/Primate CXCL1/GROα/KC/CINC-1 Antibody (Catalog # MAB275R)	
ELISA Detection	0.1-0.4 µg/mL	Human/Primate CXCL1/GROα/KC/CINC-1 Biotinylated Antibody (Catalog # BAF275)	
Standard		Recombinant Human CXCL1/GROα/KC/CINC-1 (Catalog # 275-GR)	
Neutralization	Measured by its ability to neutralize CXCL1/GROα/KC/CINC-1-induced chemotaxis in the BaF3 mouse pro-B cell lin		
	transfected with human CXCR2. The Neutralization Dose (ND ₅₀) is typically 0.600 - 9.00 μ g/mL in the presence of		
	10 ng/mL Recombination	ant Human CXCL1/GROα/KC/CINC1.	



Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & 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. 	

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Human/Primate CXCL1/GROα/KC/CINC-1 Antibody

RDSYSTEMS

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BACKGROUND

The gene for CXCL1/GRO α was initially discovered in hamster cells, using subtractive hybridization techniques, as a message that is over-expressed in tumorigenic cells and in normal cells during growth stimulation. The hamster cDNA was cloned and used as a probe for the subsequent cloning of the human GRO cDNA. Independently, a cDNA encoding a secreted protein with melanoma growth stimulating activity (MGSA) was also cloned from a human melanoma cell line and found to be identical to GRO. In addition to the initially cloned GRO gene, now designated CXCL1, two additional GRO genes, GRO β or MIP-2 α and GRO γ or MIP-2 β , which shared 90% and 86% amino acid sequence homology, respectively, with CXCL1, have been identified. All three human GROs are members of the alpha (C-X-C) subfamily of chemokines.

The three GRO cDNAs encode 107 amino acid precursor proteins from which the N-terminal 34 amino acid residues are cleaved to generate the mature GROs. There are no potential N-linked glycosylation sites in the amino acid sequences. GRO expression is inducible by serum or PDGF and/or by a variety of inflammatory mediators, such as IL-1 and TNF, in monocytes, fibroblasts, melanocytes, and epithelial cells. In certain tumor cell lines, GRO is expressed constitutively.

Similar to other alpha chemokines, the three GRO proteins are potent neutrophil attractants and activators. In addition, these chemokines are also active toward basophils. All three GROs can bind with high affinity to the IL-8 receptor type B. It remains to be seen if a unique GRO receptor(s) also exist. The rat homolog of human CXCL1, CINC, is much more active than human CXCL1 on rat neutrophils, suggesting that this cytokine may have selective species specificity.

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