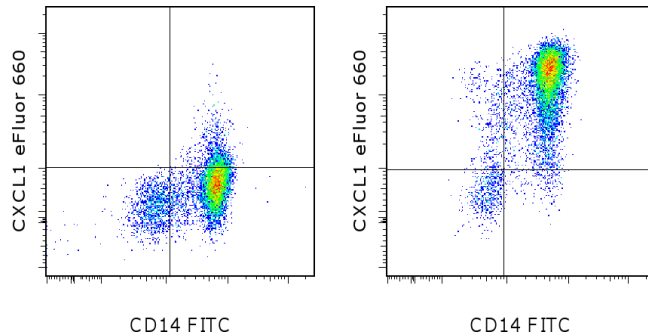


Anti-Human CXCL1 (GRO alpha) eFluor[®] 660 (Also Refer to Alternative Product Cat. No. 50-7515)

Catalog Number: 50-7519

Also known as: Growth-Related Oncogene alpha, C-X-C motif chemokine 1

RUO: For Research Use Only. Not for use in diagnostic procedures.



Normal human peripheral blood monocytes were unstimulated (left) or stimulated with LPS in the presence of Protein Transport Inhibitor Cocktail (cat. 00-4980) (right). Cells were fixed and stained intracellularly with Anti-Human CD14 FITC (cat. 11-0149) and Anti-Human CXCL1 eFluor[®] 660 using the Fixation and Permeabilization Buffers (cat. 88-8823). Cells in the monocyte gate were used for analysis.

Product Information

Contents: Anti-Human CXCL1 (GRO alpha) eFluor[®] 660 (Also Refer to Alternative Product Cat. No. 50-7515)

REF **Catalog Number:** 50-7519

Clone: W3ZLCXC

Concentration: 5 µL (0.06 µg)/test

Host/Isotype: Mouse IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide



Description

This W3ZLCXC monoclonal antibody reacts with human CXCL1. CXCL1, or GRO (growth-related oncogene) alpha, is a pro-inflammatory CXC chemokine first identified by its constitutive overexpression in some tumors. It is closely related to CXCL2 (GRO beta) and CXCL3 (GRO gamma), with which it shares 90% and 86% sequence homology, respectively. These proteins, along with IL-8 or CXCL8, were later found to be critical for neutrophil mobilization and degranulation, as well as vascular permeabilization and angiogenesis. Signaling occurs through the G protein-coupled receptor CXCR2, which is shared with GRO beta and gamma. CXCR2 can also be activated by IL-8, although some studies suggest that the majority of IL-8 activity on neutrophils is mediated by CXCR1.

CXCL1 is secreted by monocytes, epithelial cells, and fibroblasts in response to pro-inflammatory stimuli such as LPS, IL-1 beta, and TNF alpha. Overexpression is observed in many malignant tumors, where it contributes to tumor vascularization and metastasis. Recent data suggests this antibody has slight crossreactivity by ELISA to CXCL2 and CXCL3. This has not been confirmed by flow cytometry. For a more specific antibody to CXCL1, please use clone KTYFLF (cat 50-7515).

Applications Reported

This W3ZLCXC antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This W3ZLCXC antibody has been pre-titrated and tested by intracellular staining followed by flow cytometric analysis of human peripheral blood monocytes. This can be used at 5 µL (0.06 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

eFluor[®] 660 is a replacement for Alexa Fluor[®] 647. eFluor[®] 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

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References

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Fuhler GM, Knol GJ, Drayer AL, Vellenga E. Impaired interleukin-8 and GROalpha-induced phosphorylation of extracellular signal-regulated kinase result in decreased migration of neutrophils from patients with myelodysplasia. J Leukoc Biol. 2005 Feb;77(2):257-66.

Dhawan P, Richmond A. Role of CXCL1 in tumorigenesis of melanoma. J Leukoc Biol. 2002 Jul;72(1):9-18.

Related Products

00-4980 Protein Transport Inhibitor Cocktail (500X)

11-0149 Anti-Human CD14 FITC (61D3)

65-0865 Fixable Viability Dye eFluor® 780

88-8823 Intracellular Fixation & Permeabilization Buffer (plus Brefeldin A) (previously named IC Fixation & Permeabilization Buffer)

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