

# CXCL1 (GRO alpha) Monoclonal Antibody (KTYFLF), eFluor™ 660, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor™ 660, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	KTYFLF
Conjugate	eFluor™ 660
Excitation/Emission Max	651/668 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574293

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	1 Publication

## Product Specific Information

**Description:** This KTYFLF monoclonal antibody reacts with human CXCL1 and has no cross-reactivity to human CXCL2 or CXCL3. 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.

**Applications Reported:** This KTYFLF antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

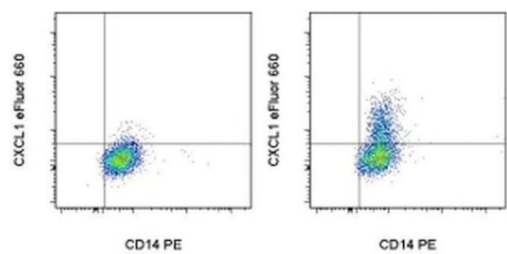
**Applications Tested:** This KTYFLF antibody has been pre-titrated and tested by intracellular staining followed by flow cytometric analysis of peripheral blood monocytes. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> 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.

Excitation: 633-647 nm; Emission: 668 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CXCL1 (GRO alpha) Monoclonal Antibody (KTYFLF), eFluor™ 660, eBioscience™



**CXCL1 (GRO alpha) Antibody (50-7515-42) in Flow**  
Normal human peripheral blood monocytes were unstimulated (left) or stimulated with LPS in the presence of Protein Transport Inhibitor Cocktail (Product # 00-4980-03) (right). Cells were fixed and stained intracellularly with Anti-Human CD14 PE (Product # 12-0149-42) and Anti-Human CXCL1 eFluor® 660 using the Intracellular Fixation and Permeabilization Buffer Set (Product # 88-8824-00). Cells in the monocyte gate were used for analysis.

1 Reference

Flow Cytometry (1)

Frontiers in cell and developmental biology	Year 2021
<b>PECAM1 Combines With CXCR4 to Trigger Inflammatory Cell Infiltration and Pulpitis Progression Through Activating the NF-B Signaling Pathway.</b>	Species Human
"50-7515 was used in Flow cytometry/Cell sorting to suggest that MEF2C transcriptionally activates PECAM1 and CXCR4 to activate the B-cell and NF-B signaling pathways, leading to inflammatory cell infiltration and pulpitis progression."	
Authors: Liu Y,Zhang Z,Li W,Tian S	

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