

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CXCR1 transfectants but not CXCR2 transfectants by flow cytometry.
Source	Monoclonal Rabbit IgG Clone # 1122A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Mouse CXCR1/IL-8 RA Peptide Accession # Q810W6
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Human whole blood monocytes

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CXCR1, also known as IL-8 RA and CD181, is an approximately 60 kDa 7TM glycoprotein that functions as a receptor for the chemokine CXCL8/IL-8. It is expressed on neutrophils, monocytes, CD8 T cells, FoxP3+ CD4 Treg cells, mast cells, neuronal and glial cells, vascular endothelial cells, and melanoma. CXCR1 forms homodimers and heterodimers with CXCR2/IL-8 RB. It can be cleaved from neutrophils in the lungs of cystic fibrosis patients to release fragments that promote CXCL8 production from airway epithelial cells. CXCR1 mediates neutrophil activation and chemotaxis to sites of inflammation as well as angiogenesis and melanoma invasiveness. Mouse CXCR1 shares 65% and 89% amino acid sequence identity with human and rat CXCR1, respectively.

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