Mouse CXCR2/IL-8 RB Antibody

Monoclonal Rat IgG_{2A} Clone # 242216

Catalog Number: MAB2164

DESCRIPTION

Species Reactivity	Mouse
Specificity	Stains mouse CXCR2 transfected cells but not CXCR1 transfectants.
Source	Monoclonal Rat IgG_{2A} Clone # 242216
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	C6 rat glioma cell line transfected with mouse CXCR2 Met1-Leu359 Accession # P35343
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.

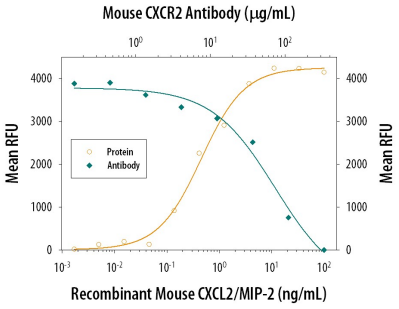
APPLICATIONS

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 µg/10^6 cells	See Below
CyTOF-reported	Wang, G. *et al.* (2016) Cancer Discov. **6**: 80. Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
Neutralization	Measured by its ability to neutralize CXCL2/GROβ/MIP-2/CINC-3-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with mouse CXCR2. The Neutralization Dose (ND_{50}) is typically 15-50 µg/mL in the presence of 2 ng/mL Recombinant Mouse CXCL2/GROβ/MIP-2/CINC-3.	

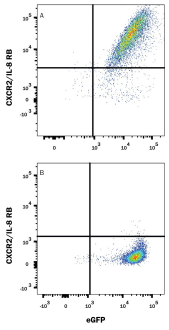
DATA

Neutralization



Chemotaxis Induced by CXCL2/MIP-2 and Neutralization by Mouse CXCR2/IL-8 RB Antibody. Recombinant Mouse CXCL2/MIP-2 (Catalog # 452-M2) chemoattracts the BaF3 mouse pro-B cell line transfected with mouse CXCR2 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Mouse CXCL2/MIP-2 (2 ng/mL) is neutralized (green line) by increasing concentrations of Rat Anti-Mouse CXCR2/IL-8 RB Monoclonal Antibody (Catalog # MAB2164). The ND_{50} is typically 15-50 µg/mL.

Flow Cytometry



Detection of CXCR2/IL-8 RB in HEK293 Human Cell Line Transfected with Mouse CXCR2/IL-8 RB and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with either (A) mouse CXCR2/IL-8 RB or (B) mouse CXCR1/IL-8 RA and eGFP was stained with Rat Anti-Mouse CXCR2/IL-8 RB Monoclonal Antibody (Catalog # MAB2164) followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113). Quadrant markers were set based on control antibody staining (Catalog # MAB006).

PREPARATION AND STORAGE

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.

BACKGROUND

CXCR2, also known as IL-8 RB, is a G protein-coupled chemokine receptor expressed on neutrophils. It binds IL-8, GROα, GROβ, GROγ, NAP-2, and ENA-78.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449