

DESCRIPTION

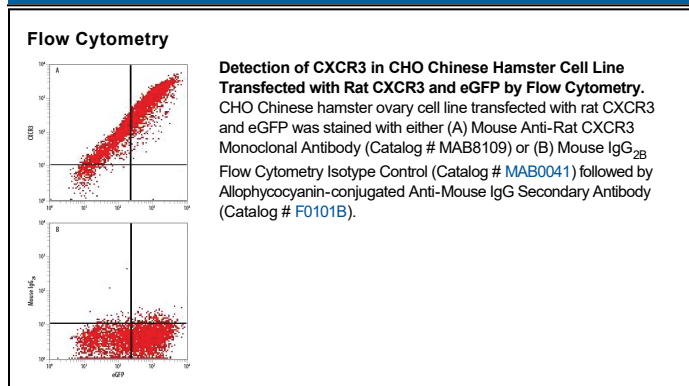
Species Reactivity	Rat
Specificity	Detects rat CXCR3 in ELISA. Stains rat CXCR3 transfected cells but not irrelevant transfectants by Flow Cytometry.
Source	Monoclonal Mouse IgG _{2B} Clone # 868013
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with rat CXCR3 Accession # Q9J119
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	2.5 µg/10 ⁶ cells	See Below
CytoF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



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. <ul style="list-style-type: none"> ● 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

CXCR3, also known as CD183, is an approximately 41 kDa (predicted) 7-transmembrane spanning receptor for the chemokines CXCL9, CXCL10, and CXCL11. It is expressed on activated T cells, B cells, and NK cells during inflammation. It is additionally upregulated on solid tumor cells, tumor endothelium, and cancer stem cells. CXCR3 plays a role in leukocyte recruitment to sites of inflammation. It also contributes to Th1 biased responses during autoimmune diseases rheumatoid arthritis, systemic erythematosis, and type 1 diabetes. Rat CXCR3 shares 86% and 96% amino acid sequence identity with human and mouse CXCR3, respectively.