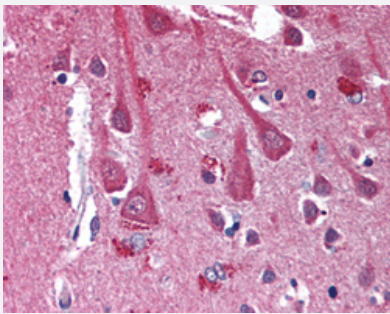


CXCR4 monoclonal antibody, clone 12G5

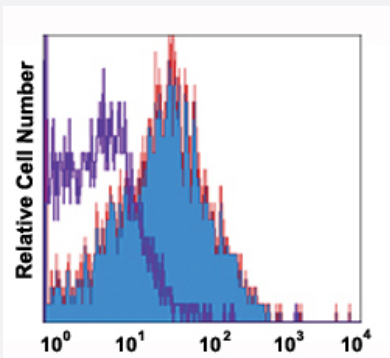
Catalog # MAB12537 Size 50 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human brain, cortex with CXCR4 monoclonal antibody, clone 12G5 (Cat # MAB12537) at 10 ug/mL working concentration.



Flow Cytometry

Flow cytometric analysis of human peripheral blood lymphocytes with CXCR4 monoclonal antibody, clone 12G5 (Cat # MAB12537) followed by biotin-conjugated anti-mouse IgG secondary antibody and PE-conjugated streptavidin.

Specification

Product Description	Mouse monoclonal antibody raised against human CXCR4.
Immunogen	cP-MAC-infected Sup-T1 cells
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Affinity purification

Isotype	IgG2a
Recommend Usage	Flow Cytometry Immunofluorescence Immunohistochemistry (Frozen sections) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (10 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (0.09% sodium azide).
Storage Instruction	Store at 4°C. Do not freeze.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human brain, cortex with CXCR4 monoclonal antibody, clone 12G5 (Cat # MAB12537) at 10 ug/mL working concentration.

- Immunohistochemistry (Frozen sections)

- Immunofluorescence

- Flow Cytometry

Flow cytometric analysis of human peripheral blood lymphocytes with CXCR4 monoclonal antibody, clone 12G5 (Cat # MAB12537) followed by biotin-conjugated anti-mouse IgG secondary antibody and PE-conjugated streptavidin.

Gene Info — CXCR4

Entrez GeneID	7852
Gene Name	CXCR4
Gene Alias	CD184, D2S201E, FB22, HM89, HSY3RR, LAP3, LCR1, LESTR, NPY3R, NPYR, NPYRL, NPY 3R, WHIM
Gene Description	chemokine (C-X-C motif) receptor 4
Omim ID	162643 193670
Gene Ontology	Hyperlink

Gene Summary

This gene encodes a CXC chemokine receptor specific for stromal cell-derived factor-1. The protein has 7 transmembrane regions and is located on the cell surface. It acts with the CD4 protein to support HIV entry into cells and is also highly expressed in breast cancer cells. Mutations in this gene have been associated with WHIM (warts, hypogammaglobulinemia, infections, and myelodysplastic syndrome) syndrome. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq]

Other Designations

C-X-C chemokine receptor type 4|CD184 antigen|chemokine (C-X-C motif), receptor 4 (fusin)|chemokine receptor 4|fusin|leukocyte-derived seven-transmembrane-domain receptor|lipopolysaccharide-associated protein 3|neuropeptide Y receptor Y3|seven transmembrane

Pathway

- [Axon guidance](#)
- [Chemokine signaling pathway](#)
- [Cytokine-cytokine receptor interaction](#)
- [Endocytosis](#)
- [Leukocyte transendothelial migration](#)

Disease

- [Acquired Immunodeficiency Syndrome](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Colon cancer](#)
- [Colorectal Neoplasms](#)
- [Coronary Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)

- [Disease Susceptibility](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Growth Hormone-Secreting Pituitary Adenoma](#)
- [Hepatitis B](#)
- [HIV Infections](#)
- [Hyperglycemia](#)
- [Liver Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Mouth Neoplasms](#)
- [Multiple Sclerosis](#)
- [Neoplasm Invasiveness](#)
- [Pituitary Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Tumor Virus Infections](#)