CD195 (CC-Chemokine Receptor 5) Antibody

Mouse Monoclonal Antibody [Clone 12D1]

Catalog No	Format	Size
1234-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1234-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1234-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

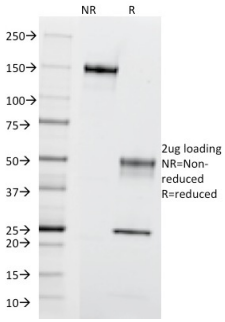
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

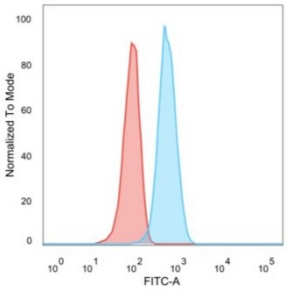
Clone	12D1
Gene Name	CCR5
Immunogen	Human native CCR5 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a / Kappa
Mol. Weight of Antigen	45kDa
Cellular Localization	Cell membrane
Species Reactivity	Human
Positive Control	HeLa, U87 or MCF-7 cells. Human lymph node and tonsil.

**Optimal dilution for a specific application should be determined.*

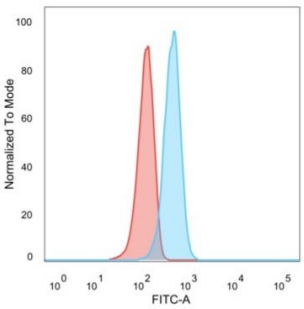
Product Images for CD195 (CC-Chemokine Receptor 5) Antibody



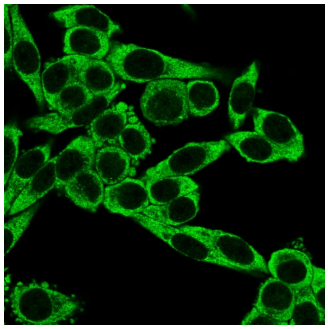
SDS-PAGE Analysis of Purified CD195 Mouse Monoclonal Antibody (12D1). Confirmation of Purity and Integrity of Antibody



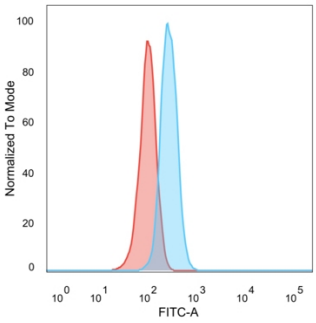
Flow Cytometric Analysis of MCF-7 cells using CD195 Mouse Monoclonal Antibody (12D1); followed by goat anti-mouse IgG-CF488 (Blue); Isotype Control (Red).



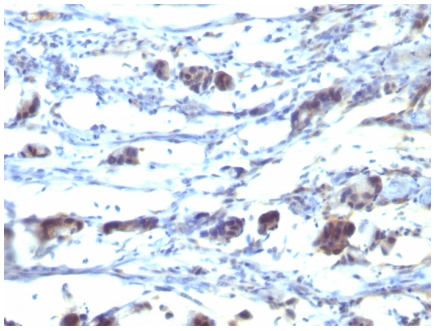
Flow Cytometric Analysis of U87 cells using CD195 Mouse Monoclonal Antibody (12D1); followed by goat anti-mouse IgG-CF488 (Blue); Isotype Control (Red).



Immunofluorescence staining of PFA-fixed HeLa cells using CD195 Mouse Monoclonal Antibody (12D1) followed by goat anti-mouse IgG conjugated to CF488 (green).



Flow Cytometric Analysis of PFA-fixed HeLa cells using CD195 Mouse Monoclonal Antibody (12D1) followed bygoat anti-mouse IgG-CF488 (Blue); Isotype Control (Red).



Formalin-fixed, paraffin-embedded human Stomach tissue stained with CD195 Mouse Monoclonal Antibody (12D1).

Specificity & Comments

Reacts with the N-terminal extracellular domain of CD195. The CC chemokine receptor 5 (CCR5) is a member of the CC-chemokine receptor family, and has the characteristic structure of a 7 transmembrane G protein-coupled receptor (GPCR). CCR5 regulates trafficking and effector functions of memory/effector Th1 cells, macrophages, NK cells, and immature dendritic cells. CCR5 and its ligands play an important role in viral pathogenesis. CCR5 represents the co-receptor for macrophage (M) and dual (T cell and M)-tropic immunodeficiency viruses. Together with the CD4 binding receptor, CCR5 plays a critical role in HIV entry into the target cells. Moreover, the CCR5 ligands macrophage inflammatory protein (MIP)-1 alpha, MIP-1 beta and RANTES act as endogenous inhibitors of HIV infection, making both CCR5 and its chemokine ligands attractive therapeutic targets for HIV infection. Recent studies have also highlighted the role of CCR5 in a variety of other human diseases, ranging from infectious and inflammatory diseases to cancer.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

AKT Signaling, Cardiovascular, Cytokine Signaling, Immunology, Infectious Disease, Mast Cell Marker, Signal Transduction

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.