

CCR5 Antibody [clone 12D1] (V2462)

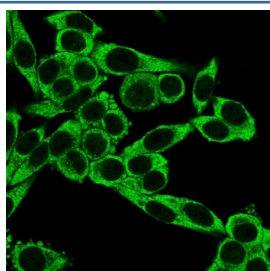
Catalog No.	Formulation	Size
V2462-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2462-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2462SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug



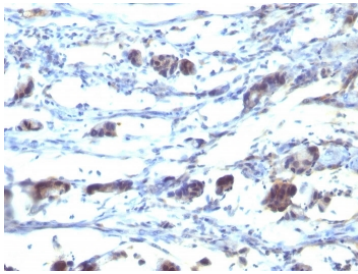
Citations (8)

[Bulk quote request](#)

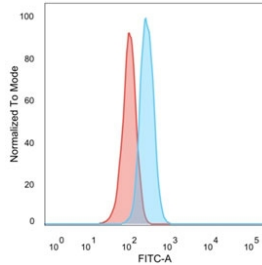
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	12D1
Purity	Protein G affinity chromatography
UniProt	P51681
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml
Limitations	This CCR5 antibody is available for research use only.



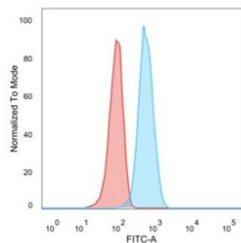
Immunofluorescent staining of PFA-fixed human HeLa cells with CCR5 antibody (clone 12D1).



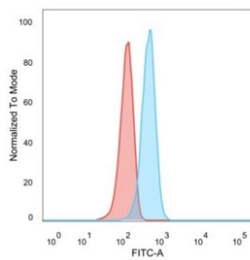
IHC staining of FFPE human stomach with CCR5 antibody (clone 12D1). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



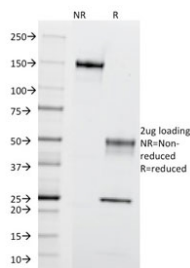
Flow cytometry testing of PFA-fixed human HeLa cells with CCR5 antibody (clone 12D1); Red=isotype control, Blue= CCR5 antibody.



Flow cytometry testing of human MCF7 cells with CCR5 antibody (clone 12D1); Red=isotype control, Blue= CCR5 antibody.



Flow cytometry testing of human U-87 MG cells with CCR5 antibody (clone 12D1); Red=isotype control, Blue= CCR5 antibody.



SDS-PAGE analysis of purified, BSA-free CCR5 antibody (clone 12D1) as confirmation of integrity and purity.

Description

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.

Application Notes

Optimal dilution of the CCR5 antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Human native protein was used as the immunogen for the CCR5 antibody.

Storage

Store the CCR5 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).