



Rabbit Anti-Human CCR5 monoclonal antibody, clone 3I25M20 (CABT-L1226)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	This antibody is predicted to react with Monkey
Target	CCR5
Immunogen	Peptides corresponding to Human CCR5 (aa 171-185, 333-347)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse
Clone	3I25M20
Purification	Protein A Purified
Conjugate	Unconjugated
Applications	FC, ICC, IF,
Format	Liquid
Concentration	0.5 mg/ml
Buffer	PBS, pH 7.2
Preservative	0.09% Sodium Azide
Storage	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

BACKGROUND

Introduction

Human immunodeficiency virus (HIV) and related virus require coreceptors, in addition to CD4, to infect target cells. Some G protein-coupled receptors including CCR5, CXCR4, CCR3, CCR2b and CCR8 in the chemokine receptor family, and four new human molecules GPR15, STRL33, GPR1 and V28 were recently identified as HIV coreceptors. Among them, CCR5 (CC-CKR-5) is a principal coreceptor for macrophage- and dual-tropic HIV-1 strains fusion and entry of human white blood cells. CCR5 is required for the infection by HIV-1, HIV-2, and SIV. The beta-chemokines RANTES, MIP-alpha and MIP-beta are the ligands for CCR5 and prevent infection by M-tropic HIV-1. CX5 associates with the surface CD4-gp120 of HIV complex and leads to membrane fusion and virus entry of target cells. The amino-terminal domain and the extracellular loops of CCR5 serve as HIV biding sites. CCR5 messenger RNA is expressed in lymphoid organs and monocytes.

Keywords

CCR5;chemokine (C-C motif) receptor 5 (gene/pseudogene);chemokine (C C motif) receptor 5 , CMKBR5;C-C chemokine receptor type 5;CC CKR 5;CD195;CKR 5;CKR5;IDDM22;chemr13;HIV-1 fusion coreceptor;chemokine receptor CCR5;C-C motif chemokine recept

GENE INFORMATION

Entrez Gene ID

[1234](#)

UniProt ID

[P51681](#)