



Rabbit Anti-Human CXCR4 polyclonal antibody (CABT-L1740)

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

PRODUCT INFORMATION

Specificity	This antibody may react with (Predicted by homology) : Bovine, Rabbit
Target	CXCR4
Immunogen	Synthetic peptide derived from the human CXCR4.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunoaffinity purified
Conjugate	Unconjugated
Applications	IHC-P
Molecular Weight	39 kDa
Cellular Localization	Membrane
Positive Control	Placenta
Format	Liquid
Buffer	PBS, 1% BSA, pH 7.6
Preservative	< 0.1% Sodium Azide
Storage	2-8°C. Do not freeze. The user must validate any other storage conditions. When properly

stored, the reagent is stable to the date indicated on the label. Do not use the reagent beyond the expiration date.

BACKGROUND

Introduction

CXCR4 (fusin, LESTR or HUMSTR) is a principal coreceptor for T cell tropic strains of HIV1 fusion and entry of human white blood cells. CXCR4 is also required for the infection by dual-tropic strains of HIV1 and mediates CD4 independent infection by HIV2. The chemokine SDF1 is the ligand for CXCR4 and prevents infection by T tropic HIV1. CXCR4 associates with the surface CD4-gp120 complex before HIV enters target cells. CXCR4 messenger RNA levels correlated with HIV1 permissiveness in diverse human cell types. Antibodies to CXCR4 block HIV1 and HIV2 fusion and infection of human target cells. The amino terminal domain and the second extracellular loop of CXCR4 serve as HIV binding sites. CXCR4 is highly expressed in brain and heart, and in white blood cells, vascular endothelial cells, and umbilical cord endothelial cells.

Keywords

CXCR4;chemokine (C-X-C motif) receptor
4;FB22;HM89;LAP3;LCR1;NPYR;WHIM;CD184;LAP-3

GENE INFORMATION

Entrez Gene ID

[7852](#)

UniProt ID

[P61073](#)
