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CXCR4 (vPair™) Antibodies

Cat#: R0067-VP

Lot#: Refer to vial

Predicted M.W.: 40 kDa

Uniprot ID: P61073

Application: WB, ELISA

Quantity: 50 ul CXCR4 (N) (R0067-1) Rabbit Polyclonal Antibody &
50 ul CXCR4 (C) (R0067-2) Rabbit Polyclonal Antibody

Product Introduction:

vPair™ antibodies represent a pair of fully characterized antibodies that recognize two different regions of a target protein. The product is developed by Abiocode to address whether the signal observed truly represents the protein of interest, an often encountered issue in antibody-based assays. The use of a pair of fully characterized vPair™ antibodies in the same assay can validate signal specificity since vPair™ antibodies recognize two independent epitopes of the same protein. Different sets of vPair™ antibodies are developed at Abiocode to work with specific applications, including antibody arrays, Western blot, IP-Western, ChIP, IHC, and FACS.

Background:

Chemokine (C-X-C motif) receptor 4 (CXCR4) is the receptor for cell-derived factor-1. It transduces signals that increase intracellular calcium ion levels. It also enhances MAPK/MAPK3 activation and reduces cellular cAMP levels. It is involved in hematopoiesis and in cardiac ventricular septum formation. CXCR4 also plays a role in vascularization of the gastrointestinal tract. Mutations in the gene that codes for CXCR4 have been associated with WHIM (warts, hypogammaglobulinemia, infections and myelokathexis) syndrome. CXCR4 acts as a co-receptor, along with CD4 protein to support HIV entry into cells. CXCR4 is also highly expressed in breast cancer cells.

Other Names:

CD184, D2S201E, FB22, HM89, HSY3RR, LAP3, LCR1, LESTR, NPY3R, NPYR, NPYRL, NP

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing either the N-terminal region [CXCR4 (N) (R0067-1)] or the C-terminal region [CXCR4 (C) (R0067-2)] of human CXCR4. Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Human

Recommended Conditions:

WB: 1:1,000-1:5,000 (detect endogenous protein*)

ELISA: > 10,000 (detect immunogen)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Product Data:

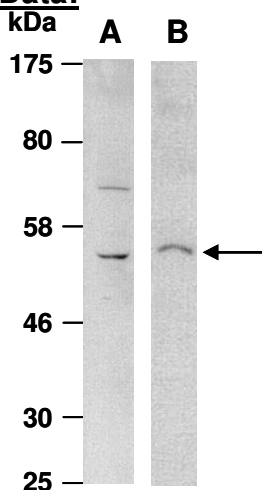


Fig 1. Western blot of total cell extracts from human Jurkat, using Ab (A) CXCR4 (N) (R0067-1) or (B) CXCR4 (C) (R0067-2) at RT for 2 h.