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CXCR4 Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant CXCR4.
Catalog # AT1695a

Product Information

Application	WB, E
Primary Accession	P61073
Other Accession	BC020968
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2G9
Calculated MW	39746

Additional Information

Gene ID	7852
Other Names	C-X-C chemokine receptor type 4, CXC-R4, CXCR-4, FB22, Fusin, HM89, LCR1, Leukocyte-derived seven transmembrane domain receptor, LESTR, Lipopolysaccharide-associated protein 3, LAP-3, LPS-associated protein 3, NPYRL, Stromal cell-derived factor 1 receptor, SDF-1 receptor, CD184, CXCR4
Target/Specificity	CXCR4 (AAH20968, 1 a.a. ~ 46 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CXCR4 Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

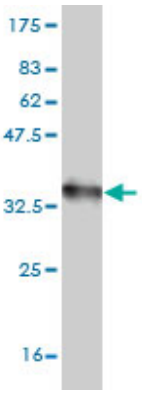
Background

This gene encodes a CXC chemokine receptor specific for stromal cell-derived factor-1. The protein has 7 transmembrane regions and is located on the cell surface. It acts with the CD4 protein to support HIV entry into cells and is also highly expressed in breast cancer cells. Mutations in this gene have been associated with WHIM (warts, hypogammaglobulinemia, infections, and myelokathexis) syndrome. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

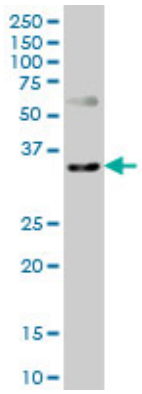
References

CXCR4/YY1 inhibition impairs VEGF network and angiogenesis during malignancy. de Nigris F, et al. Proc Natl Acad Sci U S A, 2010 Aug 10. PMID 20660740.CXCR4, a potential predictive marker for docetaxel sensitivity in gastric cancer. Xie L, et al. Anticancer Res, 2010 Jun. PMID 20651371.Decreased interstitial FOXP3(+) lymphocytes in usual interstitial pneumonia with discrepancy of CXCL12/CXCR4 axis. Shimizu Y, et al. Int J Immunopathol Pharmacol, 2010 Apr-Jun. PMID 20646340.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Differences in donor CXCR4 expression levels are correlated with functional capacity and therapeutic outcome of angiogenic treatment with endothelial colony forming cells. Oh BJ, et al. Biochem Biophys Res Commun, 2010 Aug 6. PMID 20599766.

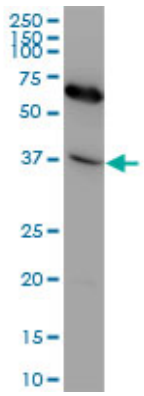
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (30.8 KDa) .

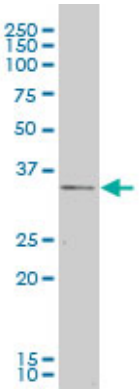


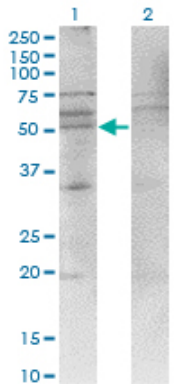
CXCR4 monoclonal antibody (M04), clone 2G9. Western Blot analysis of CXCR4 expression in human colon.



CXCR4 monoclonal antibody (M04), clone 2G9. Western Blot analysis of CXCR4 expression in human intestinal wall.

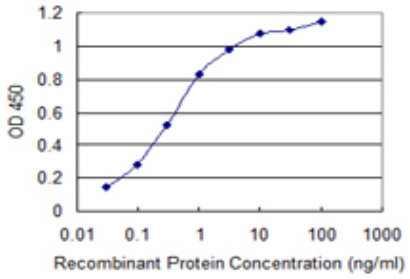
CXCR4 monoclonal antibody (M04), clone 2G9. Western Blot analysis of CXCR4 expression in RIN-m5F.





Western Blot analysis of CXCR4 expression in transfected 293T cell line by CXCR4 monoclonal antibody (M04), clone 2G9.

Lane 1: CXCR4 transfected lysate (Predicted MW: 39.7 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged CXCR4 is 0.03 ng/ml as a capture antibody.

Citations

- Inhibition of CXCR4 and CXCR7 for reduction of cell proliferation and invasion in human endometrial cancer.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.