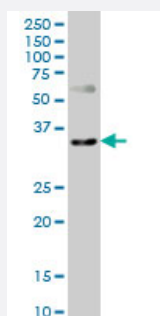


CXCR4 monoclonal antibody (M04), clone 2G9

Catalog # H00007852-M04

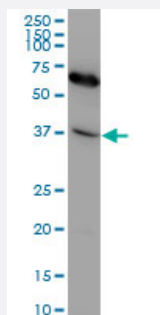
Size 100 ug

Applications



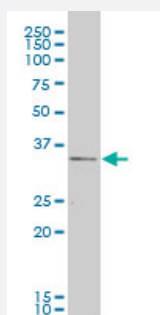
Western Blot (Tissue lysate)

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



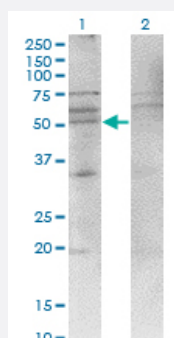
Western Blot (Tissue lysate)

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



Western Blot (Cell lysate)

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



Western Blot (Transfected lysate)

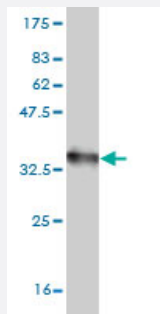
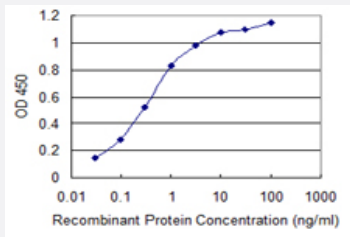
Western Blot analysis of CXCR4 expression in transfected 293T cell line by CXCR4 monoclonal antibody (M04), clone 2G9.

Lane 1: CXCR4 transfected lysate (Predicted MW: 39.7 kDa).

Lane 2: Non-transfected lysate.

Sandwich ELISA (Recombinant protein)

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



Western Blot detection against Immunogen (30.8 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant CXCR4.
Immunogen	CXCR4 (AAH20968, 1 a.a. ~ 46 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MEGISYTSNDNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTYS
Host	Mouse
Reactivity	Human, Rat
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (30.8 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

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

[Protocol Download](#)

- Western Blot (Tissue lysate)

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

[Protocol Download](#)

- Western Blot (Cell lysate)

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

[Protocol Download](#)

- Western Blot (Transfected lysate)

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.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

Gene Info — CXCR4

Entrez GeneID	7852
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GeneBank Accession#	BC020968
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Protein Accession#	AAH20968
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Gene Name	CXCR4
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Gene Alias	CD184, D2S201E, FB22, HM89, HSY3RR, LAP3, LCR1, LESTR, NPY3R, NPYR, NPYRL, NPY3R, WHIM
Gene Description	chemokine (C-X-C motif) receptor 4
Omim ID	162643 193670
Gene Ontology	Hyperlink
Gene Summary	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 myelodysplasia) syndrome. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq]
Other Designations	C-X-C chemokine receptor type 4 CD184 antigen chemokine (C-X-C motif), receptor 4 (fusin) chemokine receptor 4 fusin leukocyte-derived seven-transmembrane-domain receptor lipopolysaccharide-associated protein 3 neuropeptide Y receptor Y3 seven transmembrane

Publication Reference

- [New Insights into Mechanisms and Functions of Chemokine \(C-X-C Motif\) Receptor 4 Heteromerization in Vascular Smooth Muscle.](#)

Evans AE, Tripathi A, LaPorte HM, Brueggemann LI, Singh AK, Albee LJ, Byron KL, Tarasova NI, Volkman BF, Cho TY, Gaponenko V, Majetschak M.

International Journal of Molecular Sciences 2016 Jun; 17(5):E971.

Application: Flow Cyt, PLA, Human, Mouse, Aortic vascular smooth muscle cells

- [Heteromerization of chemokine \(C-X-C motif\) receptor 4 with \$\alpha\$ 1A/B-adrenergic receptors controls \$\alpha\$ 1-adrenergic receptor function.](#)

Tripathi A, Vana PG, Chavan TS, Brueggemann LI, Byron KL, Tarasova NI, Volkman BF, Gaponenko V, Majetschak M.

PNAS 2015 Mar; 112(13):E1659.

Application: PLA, Human, Rat, A7r5 cells, Human, Rat vascular smooth muscle cells

Pathway

- [Axon guidance](#)
- [Chemokine signaling pathway](#)
- [Cytokine-cytokine receptor interaction](#)
- [Endocytosis](#)

- [Leukocyte transendothelial migration](#)

Disease

- [Acquired Immunodeficiency Syndrome](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Colon cancer](#)
- [Colorectal Neoplasms](#)
- [Coronary Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Growth Hormone-Secreting Pituitary Adenoma](#)
- [Hepatitis B](#)
- [HIV Infections](#)
- [Hyperglycemia](#)
- [Liver Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Mouth Neoplasms](#)
- [Multiple Sclerosis](#)

- [Neoplasm Invasiveness](#)
- [Pituitary Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Tumor Virus Infections](#)