

Datasheet for ABIN730888
anti-CXCR4 antibody (AA 201-294)

8 Images

16 Publications

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Overview

Quantity:	100 µL
Target:	CXCR4
Binding Specificity:	AA 201-294
Reactivity:	Human, Mouse, Rat, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CXCR4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CXCR4
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rabbit, Rat
Predicted Reactivity:	Cow
Purification:	Purified by Protein A.

Target Details

Target:	CXCR4
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Target Details

Alternative Name:	CXCR4 (CXCR4 Products)
Background:	<p>Synonyms: 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</p> <p>Background: Receptor for the C-X-C chemokine CXCL12/SDF-1 that transduces a signal by increasing intracellular calcium ion levels and enhancing MAPK1/MAPK3 activation. Acts as a receptor for extracellular ubiquitin, leading to enhanced intracellular calcium ions and reduced cellular cAMP levels. Involved in hematopoiesis and in cardiac ventricular septum formation. Also plays an essential role in vascularization of the gastrointestinal tract, probably by regulating vascular branching and/or remodeling processes in endothelial cells. Involved in cerebellar development. In the CNS, could mediate hippocampal-neuron survival. Acts as a coreceptor (CD4 being the primary receptor) for HIV-1 X4 isolates and as a primary receptor for some HIV-2 isolates. Promotes Env-mediated fusion of the virus. Binds bacterial lipopolysaccharide (LPS) et mediates LPS-induced inflammatory response, including TNF secretion by monocytes.</p>
Gene ID:	7852
Pathways:	Regulation of Cell Size , CXCR4-mediated Signaling Events

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL

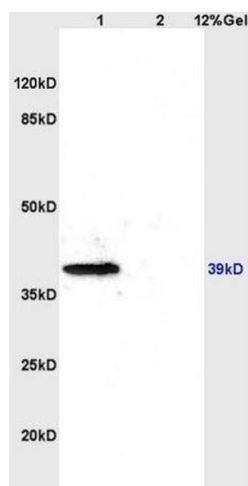
Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

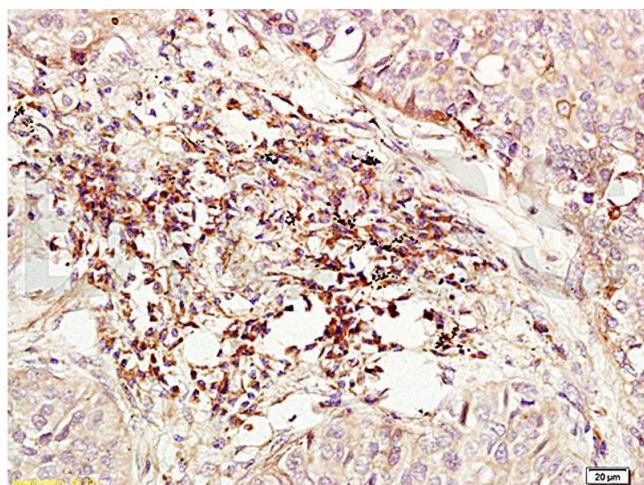
- Product cited in:
- Sha, Yang, Lv: "MGF E peptide improves anterior cruciate ligament repair by inhibiting hypoxia-induced cell apoptosis and accelerating angiogenesis." in: **Journal of cellular physiology**, Vol. 234, Issue 6, pp. 8846-8861, (2019) ([PubMed](#)).
- Zhuang, Li, Huang, Lei, Yan, Li, Sidhu, Cheng, Yan, Miao, Zhao, Hua: "Reelin regulates male mouse reproductive capacity via the sertoli cells." in: **Journal of cellular biochemistry**, (2018) ([PubMed](#)).
- Ochi, Chen, Schulte, Leng, Moeckel, Piecychna, Averdunk, Stoppe, Bucala, Moeckel: "MIF-2/D-DT enhances proximal tubular cell regeneration through SLPI- and ATF4-dependent mechanisms." in: **American journal of physiology. Renal physiology**, Vol. 313, Issue 3, pp. F767-F780, (2017) ([PubMed](#)).
- Aerbajinai, Liu, Zhu, Kumkhaek, Chin, Rodgers: "Glia Maturation Factor- γ Regulates Monocyte Migration through Modulation of β 1-Integrin." in: **The Journal of biological chemistry**, Vol. 291, Issue 16, pp. 8549-64, (2016) ([PubMed](#)).
- Wang, Chen, Tang, Jiang, Ji: "AMD3100 Attenuates Matrix Metalloprotease-3 and -9 Expressions and Prevents Cartilage Degradation in a Monosodium Iodo-Acetate-Induced Rat Model of Temporomandibular Osteoarthritis." in: **Journal of oral and maxillofacial surgery : official journal of the American Association of Oral and Maxillofacial Surgeons**, Vol. 74, Issue 5, pp. 927.e1-927.e13, (2016) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



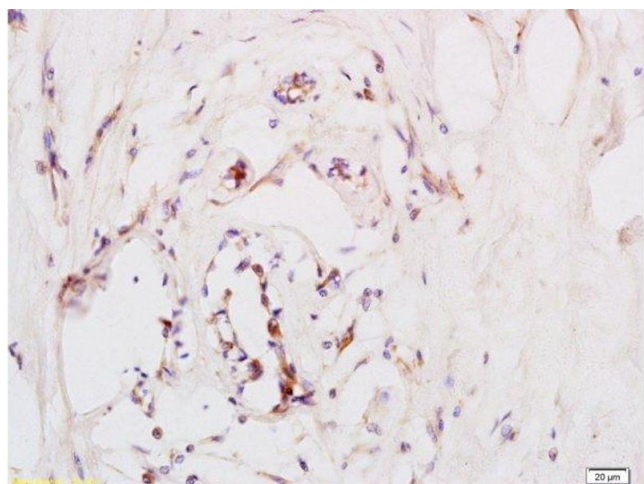
SDS-PAGE

Image 1. L1 rat brain lysates L2 rat kidney lysates probed with Anti- CD184/CXCR4 Polyclonal Antibody, Unconjugated (ABIN730888) at 1:200 overnight at 4 °C. Followed by conjugation to secondary antibody at 1:3000 for 90 min at 37 °C. Predicted band 39kD.Observed band 39kD



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-CD184/CXCR4 Polyclonal Antibody (ABIN730888), Unconjugated at 1:200, followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin embedded human breast carcinoma labeled with Anti-CD184/CXCR4 Polyclonal Antibody , Unconjugated at 1:200, followed by conjugation to the secondary antibody and DAB staining

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN730888.