



Datasheet for ABIN1387536

anti-CXCR7 antibody (AA 151-250)



[Go to Product page](#)

2 Images

2 Publications

Overview

Quantity:	100 µL
Target:	CXCR7
Binding Specificity:	AA 151-250
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CXCR7 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CXCR7/RDC1
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Predicted Reactivity:	Mouse, Dog, Cow, Pig, Horse, Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	CXCR7
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Target Details

Alternative Name:	CXCR7/RDC1 (CXCR7 Products)
Background:	<p>Synonyms: RDC1, CXCR7, RDC-1, CMKOR1, CXC-R7, CXCR-7, GPR159, Atypical chemokine receptor 3, C-X-C chemokine receptor type 7, Chemokine orphan receptor 1, G-protein coupled receptor 159, G-protein coupled receptor RDC1 homolog, ACKR3</p> <p>Background: Atypical chemokine receptor that controls chemokine levels and localization via high-affinity chemokine binding that is uncoupled from classic ligand-driven signal transduction cascades, resulting instead in chemokine sequestration, degradation, or transcytosis. Also known as interceptor (internalizing receptor) or chemokine-scavenging receptor or chemokine decoy receptor. Acts as a receptor for chemokines CXCL11 and CXCL12/SDF1. Chemokine binding does not activate G-protein-mediated signal transduction but instead induces beta-arrestin recruitment, leading to ligand internalization and activation of MAPK signaling pathway. Required for regulation of CXCR4 protein levels in migrating interneurons, thereby adapting their chemokine responsiveness. In glioma cells, transduces signals via MEK/ERK pathway, mediating resistance to apoptosis. Promotes cell growth and survival. Not involved in cell migration, adhesion or proliferation of normal hematopoietic progenitors but activated by CXCL11 in malignant hemopoietic cells, leading to phosphorylation of ERK1/2 (MAPK3/MAPK1) and enhanced cell adhesion and migration. Plays a regulatory role in CXCR4-mediated activation of cell surface integrins by CXCL12. Required for heart valve development. Acts as coreceptor with CXCR4 for a restricted number of HIV isolates.</p>

Gene ID:	57007
UniProt:	P25106

Pathways: [Myometrial Relaxation and Contraction](#), [Negative Regulation of intrinsic apoptotic Signaling](#)

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 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 ICC 1:100-500
Restrictions:	For Research Use only

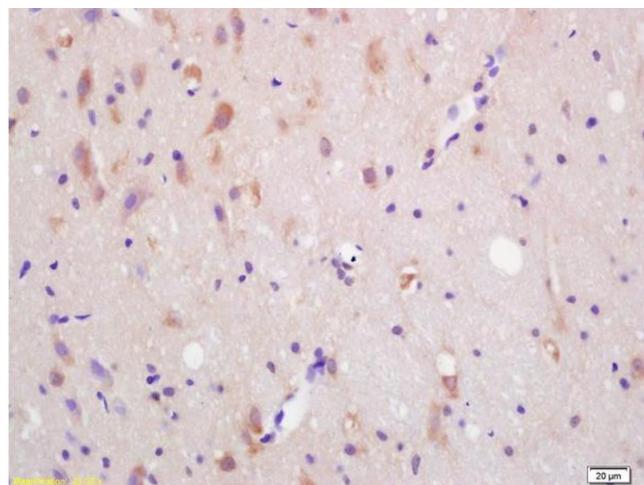
Handling

Format:	Liquid
Concentration:	1 µg/µL
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

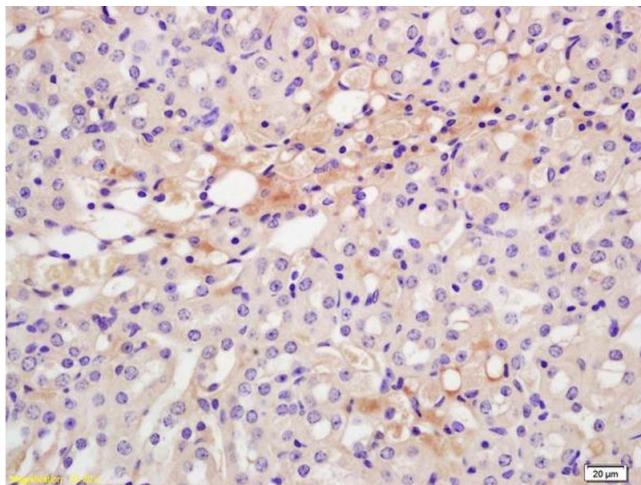
Product cited in: Cao, Song, Ge, Song, Chen, Wu: "MicroRNA-100 suppresses human gastric cancer cell proliferation by targeting CXCR7." in: **Oncology letters**, Vol. 15, Issue 1, pp. 453-458, (2018) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Anti-CXCR7/RDC1 Polyclonal Antibody, Unconjugated (ABIN1387536) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat kidney labeled with Anti-CXCR7/RDC1 Polyclonal Antibody, Unconjugated (ABIN1387536) at 1:200 followed by conjugation to the secondary antibody and DAB staining.