e at -20C	SDF1/CXCL12 Antibody		CHNOLOGY®
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
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For Research Lise Only	Not for Use in	Diagnostic Procedures.
FUI RESEAICH USE UNI	y, NUL IUI USE III	Diagnostic Frocedures.

Applications: WB	Reactivity: H M R	Sensitivity: Recombinant protein	<b>MW (kDa):</b> 9	Source: Rabbit	UniProt ID: #P48061	Entrez-Gene Id: 6387	
Product Usage Information	-	pplication estern Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 0°C. Do not aliquot the antibody.					
Specificity / Sensitivity		SDF1/CXCL12 Antibody detects recombinant SDF1/CXCL12 protein and is expected to recognize both SDF1/CXCL12 $\alpha$ and SDF1/CXCL12 $\beta$ isoforms.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln80 of human SDF1/CXCL12. Antibodies are purified by protein A and peptide affinity chromatography.					
Background Background References		The stromal cell derived factor 1 (SDF1/CXCL12) is a small, pro-inflammatory chemoattractant cytokine that regulates leukocyte trafficking through interactions with its cognate 7-transmembrane G protein-coupled receptors (1). The SDF1/CXCL12 receptor, CXCR4, also serves as a coreceptor for the entry of human immunodeficiency virus into target cells (2). SDF1/CXCL12 may regulate homing and maintenance of CXCR4-expressing stem or progenitor cells, including embryonic and many somatic stem cells (3,4). Many cancer cells express CXCR4, suggesting that SDF1/CXCL12 plays a role in cancer metastasis (5,6). Alternative splicing and differential processing during maturation produce a pair of SDF1/CXCL12 isoforms (SDF1/CXCL12α and SDF1/CXCL12β) that have different properties and biological activities (7). Additional isoforms of SDF1/CXCL12 have been reported (8,9).					
		<ol> <li>Maekawa, T. and Ishii, T. (2000) Intern Med 39, 90-100.</li> <li>Ray, N. and Doms, R.W. (2006) Curr Top Microbiol Immunol 303, 97-120.</li> <li>Sugiyama, T. et al. (2006) Immunity 25, 977-88.</li> <li>Ara, T. et al. (2003) Immunity 19, 257-67.</li> <li>Kucia, M. et al. (2004) J Mol Histol 35, 233-45.</li> <li>Ratajczak, M.Z. et al. (2006) Leukemia 20, 1915-24.</li> <li>De La Luz Sierra, M. et al. (2004) Blood 103, 2452-9.</li> <li>Gleichmann, M. et al. (2000) Eur J Neurosci 12, 1857-66.</li> <li>Yu, L. et al. (2006) Gene 374, 174-9.</li> </ol>					
Species Reactivity	<b>y</b> Spe	cies reactivity is deter	mined by testing ir	n at least one appro	ved application (e.g., we	stern blot).	
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key	WB	WB: Western Blotting					
Cross-Reactivity Key		H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected					
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## SDF1/CXCL12 Antibody (#3740) Datasheet Without Images Cell Signaling Technology

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