

Phospho-CXCR4 (Ser324/Ser325) Antibody



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 42-50	Source/Isotype: Rabbit	UniProt ID: #P61073	Entrez-Gene Id 7852
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-CXCR4 (Ser324/Ser325) Antibody recognizes endogenous levels of CXCR4 protein only when phosphorylated at Ser324 and Ser325. This antibody does not cross-react with CXCR4 protein when phosphorylated at Ser339.				
Species predicted to react based on 100% sequence homology		Mouse, Hamster, Chio	cken			
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser324/Ser325 of human CXCR4 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		CXCR4 is a chemokine receptor that belongs to the G protein-coupled receptor family. It is activated by a small cytokine, CXCL12, also known as stromal cell derived factor 1 (SDF1) (1). The main function of CXCR4 is the mediation of the homing of progenitor cells in the bone marrow and their recruitment to sites of injury (2). More recently, CXCR4 has been studied as a potential therapeutic target in the context of autoimmune diseases (3), as well as cancer, as the receptor is involved in the regulation of migration, proliferation, and survival of cancer cells (4).				
		receptor kinase 6 upo	on treatment of cell	24 and Ser325 by proteir s with CXCL12 (2). Phosp dation of CXCR4 (6,7).		
Background References		 Blanchet, X. et al. (2012) Front Immunol 3, 175. Döring, Y. et al. (2014) Front Physiol 5, 212. Debnath, B. et al. (2013) Theranostics 3, 47-75. Teicher, B.A. and Fricker, S.P. (2010) Clin Cancer Res 16, 2927-31. Busillo, J.M. et al. (2010) J Biol Chem 285, 7805-17. Marchese, A. and Benovic, J.L. (2001) J Biol Chem 276, 45509-12. Bhandari, D. et al. (2009) Mol Biol Cell 20, 1324-39. 				
Species Reactiv	vity	Species reactivity is d	etermined by testir	g in at least one approve	ed application (e.g.,	western 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 V	01/	W: Western Blotting				

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human

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