



Data Sheet (DS) 7TM0071-SP

Issuing Date: 2024-09-13

Description	CXCR4 Sample Pack (phospho- and non-phospho-CXCR4 Chemokine Receptor Antibodies)
Format	Purified, Liquid
Product Type	Rabbit Polyclonal Antibody
Isotype	Polyclonal IgG
Quantity	5 x 20 µl
Content	CXCR4 Sample Pack consisting of all five available phospho- and non-phospho-CXCR4 Antibodies 5 x 20 µL trial size each. Specifically, this sample pack contains the following antibodies pS324/pS325-CXCR4 (7TM0071A), pS330-CXCR4 (7TM0071C), pS338/pS339-CXCR4 (7TM0071D), pS346/pS347-CXCR4 (7TM0071B) and CXCR4 (non-phospho), CXC Chemokine Receptor 4 Antibody (7TM0071N).

Product Details

Applications	This product has been reported to work in the following applications:	
	Western Blot	Dilution 1:1000
	This information is derived from testing within our laboratories and peer-reviewed publications. Please refer to references indicated for further information. For general protocol recommendations, please visit https://7tmantibodies.com/7tm-antibodies-support/7tm-protocols/ Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.	
Target Species	Human, Mouse	
Product Form	Purified IgG, liquid	
Antiserum Preparation	Antiserum to CXC Chemokine Receptor 4 was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.	
Immunogen	A synthetic phosphopeptides derived from human CXCR4 around the phosphorylation site of Ser324/Ser325 or Ser330 or Ser338/Ser339 or Ser346/Ser347. A synthetic peptide with the sequence KGKRGGHSSVSTESESSSFHSS corresponding to residues 338-359 in human, mouse and rat CXCR4.	
Storage Buffer	Dulbecco's PBS, pH 7.4, with 150 mM NaCl, 0.02% sodium azide	

Specificity	<p>Serine324/serine325 (S324/S325) is a major phosphorylation site of the CXCR4 receptor. The pS324/pS325-CXCR4 antibody detects phosphorylation in response to agonists but not after PKC activation. S324/S325 phosphorylation is a key regulator of CXCR4 desensitization, β-arrestin recruitment and internalization.</p> <p>Serine330(S330) is a major phosphorylation site of the CXCR4 receptor. The pS330-CXCR4 antibody detects phosphorylation in response to agonists and after PKC activation. S330 phosphorylation is a key regulator of CXCR4 desensitization, β-arrestin recruitment and internalization.</p> <p>Serine338 and Serine339 (S338/S339) are a major phosphorylation sites of the CXCR4 receptor. The pS338/pS339-CXCR4 antibody detects phosphorylation in response to agonists and after PKC activation. S338/S339 phosphorylation is a key regulator of CXCR4 desensitization, β-arrestin recruitment and internalization.</p> <p>Serine346/serine347 (S346/S347) is a major phosphorylation site of the CXCR4 receptor. The pS346/pS347-CXCR4 antibody detects phosphorylation in response to agonists and after PKC activation. S346/S347 phosphorylation is a key regulator of CXCR4 desensitization, β-arrestin recruitment and internalization.</p> <p>The non-phospho-CXCR4 receptor antibody is directed against the distal end of the carboxyl-terminal tail of mouse, rat and human CXCR4. It can be used to detect CXCR4 receptors in Western blots in a phosphorylation-sensitive manner. After agonist activation CXCR4 is phosphorylated at S346/S347. Because the CXCR4 antibody detects the same epitope, it no longer binds to the receptor. It detects selectively CXCR4 receptors that have been hot activated and not phosphorylated. Total CXCR4 can be detected in Western blots and immunohistochemistry only after phosphatase treatment. It can also be used to isolate and enrich CXCR4 receptors from brain lysates. It also detects CXCR4 in cultured cells and tissue sections by immunohistochemistry. The non-phospho-CXCR4 antibody has been validated using knockout mice (KO-Validated).</p>
Guarantee	12 months from date of dispatch
Storage	<p>Store at -20°C.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.</p>
Regulatory	For research purposes only
Health and Safety Information	<p>Material Safety Data Sheet documentation is available at https://7mantibodies.com/phosphosite-7tm-antibodies/chemokine-receptors/cxcr4/432/cxcr4-sample-pack-phospho-and-non-phospho-cxcr4-chemokine-receptor-antibodies?c=79 in the downloads section as:</p> <p>Safety Data Sheet EU</p> <p>Safety Data Sheet US</p>

Details of the Supplier of the Data Sheet

Supplier

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