



**Data Sheet (DS) 7TM0029-SP**

**Issuing Date:** 2024-09-13

Description	$\beta$ 2-Adrenoceptor Sample Pack (phospho- and non-phospho- $\beta$ 2-Adrenoceptor Antibodies)
Format	Purified, Liquid
Product Type	Rabbit Polyclonal Antibody
Isotype	Polyclonal IgG
Quantity	4 x 20 $\mu$ l
Content	$\beta$ 2-Adrenoceptor Antibody Sample Pack consisting of three phospho- and one non-phospho- $\beta$ 2-Adrenoceptor Antibodies 4 x 20 $\mu$ L trial size each. Specifically, this sample pack contains the following antibodies pS355/pS356- $\beta$ 2 (7TM0029A), pT360/pS364- $\beta$ 2 (7TM0029B), pS261/pS262- $\beta$ 2 (7TM0029G) and $\beta$ 2 (non-phos) (7TM0029N).

**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 <a href="https://7tmantibodies.com/7tm-antibodies-support/7tm-protocols/">https://7tmantibodies.com/7tm-antibodies-support/7tm-protocols/</a> 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	
Product Form	Purified IgG, liquid	
Antiserum Preparation	Antiserum to $\beta$ 2-Adrenoceptor was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.	
Immunogens	Synthetic phosphopeptides derived from human $\beta$ 2 around the phosphorylation site of Ser355/Ser356 or Thr360/Ser364 or Ser261/Ser262. A synthetic peptide derived from human $\beta$ 2 with the sequence GLRRSSKF.	
Storage Buffer	Dulbecco's PBS, pH 7.4, with 150 mM NaCl, 0.02% sodium azide	

Specificity	<p>Serine355/Serine356 (S355/S356) is a major phosphorylation site of the <math>\beta</math>2 adrenoceptor. The pS355/pS356-<math>\beta</math>2 antibody detects phosphorylation in response to high- and low-efficacy agonists but not after PKC activation. S355/S356 phosphorylation is primarily mediated by GRK6 and is a key regulator of <math>\beta</math>2 desensitization, <math>\beta</math>-arrestin recruitment and internalization.</p> <p>Threonine360/Serine364 (T360/S364) is a major phosphorylation site of the <math>\beta</math>2 adrenoceptor. The pT360/pS364-<math>\beta</math>2 antibody detects phosphorylation in response to high- and low-efficacy agonists but not after PKC activation. T360/S364 phosphorylation is primarily mediated by GRK2 and is a key regulator of <math>\beta</math>2 desensitization, <math>\beta</math>-arrestin recruitment and internalization.</p> <p>Serine261/Serine262 (S261/S262) is a major phosphorylation site of the <math>\beta</math>2 adrenoceptor. The pS261/pS262-<math>\beta</math>2 antibody detects phosphorylation in response to high- and low-efficacy agonists but not after PKC activation. S261/S262 phosphorylation is a key regulator of <math>\beta</math>2 desensitization, <math>\beta</math>-arrestin recruitment and internalization.</p> <p>The non-phospho-<math>\beta</math>2 antibody is directed against the third intracellular loop of human <math>\beta</math>2. It can be used to detect total <math>\beta</math>2 receptors in Western blots independent of phosphorylation. The non-phospho-<math>\beta</math>2 antibody can also be used to isolate and enrich <math>\beta</math>2 receptors from cell and tissue lysates.</p>
Guarantee	12 months from date of dispatch
Storage	Store at -20°C. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.
Regulatory	For research purposes only
Health and Safety Information	Material Safety Data Sheet documentation is available at <a href="https://7tmantibodies.com/phosphosite-7tm-antibodies/adrenoceptors/v2-adrenoceptor/467/v2-adrenoceptor-sample-pack-phospho-and-non-phospho-v2-adrenoceptor-antibodies?c=527">https://7tmantibodies.com/phosphosite-7tm-antibodies/adrenoceptors/v2-adrenoceptor/467/v2-adrenoceptor-sample-pack-phospho-and-non-phospho-v2-adrenoceptor-antibodies?c=527</a> in the downloads section as: <a href="#">Safety Data Sheet EU</a> <a href="#">Safety Data Sheet US</a>

### **Details of the Supplier of the Data Sheet**

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