



Data Sheet (DS) 7TM0029-SP

Issuing Date: 2024-09-13

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

Product Details

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| Applications | This product has been reported to work in the following applications: | |
| | | Dilution |
| | Western Blot | 1:1000 |
| | <p>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/</p> <p>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.</p> | |
| Target Species | Human | |
| Product Form | Purified IgG, liquid | |
| Antiserum Preparation | Antiserum to β 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 β 2 around the phosphorylation site of Ser355/Ser356 or Thr360/Ser364 or Ser261/Ser262. A synthetic peptide derived from human β 2 with the sequence GLRRSSKF. | |
| Storage Buffer | Dulbecco's PBS, pH 7.4, with 150 mM NaCl, 0.02% sodium azide | |

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| Specificity | <p>Serine355/Serine356 (S355/S356) is a major phosphorylation site of the $\beta 2$ adrenoceptor. The pS355/pS356-$\beta 2$ 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 $\beta 2$ desensitization, β-arrestin recruitment and internalization.</p> <p>Threonine360/Serine364 (T360/S364) is a major phosphorylation site of the $\beta 2$ adrenoceptor. The pT360/pS364-$\beta 2$ 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 $\beta 2$ desensitization, β-arrestin recruitment and internalization.</p> <p>Serine261/Serine262 (S261/S262) is a major phosphorylation site of the $\beta 2$ adrenoceptor. The pS261/pS262-$\beta 2$ antibody detects phosphorylation in response to high- and low-efficacy agonists but not after PKC activation. S261/S262 phosphorylation is a key regulator of $\beta 2$ desensitization, β-arrestin recruitment and internalization.</p> <p>The non-phospho-$\beta 2$ antibody is directed against the third intracellular loop of human $\beta 2$. It can be used to detect total $\beta 2$ receptors in Western blots independent of phosphorylation. The non-phospho-$\beta 2$ antibody can also be used to isolate and enrich $\beta 2$ receptors from cell and tissue lysates.</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://7tmantibodies.com/phosphosite-7tm-antibodies/adrenoceptors/v2-adrenoceptor/467/v2-adrenoceptor-sample-pack-phospho-and-non-phospho-v2-adrenoceptor-antibodies?c=527 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

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