



Data Sheet (DS) 7TM0014-SP

Issuing Date: 2024-09-13

Description	M2 Sample Pack (phospho- and non-phospho-M2 Receptor Antibodies)
Format	Purified, Liquid
Product Type	Rabbit Polyclonal Antibody
Isotype	Polyclonal IgG
Quantity	7 x 20 µl
Content	M2 Sample Pack consisting of all six available phospho- and one non-phospho-M2 Receptor Antibodies 7 x 20 µL trial size each. Specifically, this sample pack contains the following antibodies pT271-M2 (7TM0014A), pS282/pS283-M2 (7TM0014B), pS286/pT287/pS288-M2 (7TM0014C), pT307/pS309-M2 (7TM0014D), pT310/pS311-M2 (7TM0014E), pS315/pS320-M2 (7TM0014F) and M2 (non-phospho) (7TM0014N).

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	
Product Form	Purified IgG, liquid	
Antiserum Preparation	Antiserum to M2 Muscarinic Acetylcholine Receptor 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 M2 around the phosphorylation site of Thr271 or Ser282/Ser283 or Ser286/Thr287/Ser288 or Thr307/Ser309 or Thr310/Ser311 or	

	Ser315/Ser320. A synthetic peptide presents the third intracellular loop of human M2.
Storage Buffer	Dulbecco's PBS, pH 7.4, with 150 mM NaCl, 0.02% sodium azide
Specificity	<p>Threonine271 is a major phosphorylation site of the M2 Muscarinic Acetylcholine Receptor. The pT271-M2 antibody detects phosphorylation in response to high-efficacy agonists but not after PKC activation. T271 phosphorylation is a key regulator of M2 desensitization, β-arrestin recruitment and internalization.</p> <p>Serine282/Serine283 is a major phosphorylation site of the M2 Muscarinic Acetylcholine Receptor. The pS282/pS283-M2 antibody detects phosphorylation in response to high-efficacy agonists but not after PKC activation. S282/S283 phosphorylation is a key regulator of M2 desensitization, β-arrestin recruitment and internalization.</p> <p>Serine286/Threonine287/Serine288 is a major phosphorylation site of the M2 Muscarinic Acetylcholine Receptor. The pS286/pT287/pS288-M2 antibody detects phosphorylation in response to high-efficacy agonists but not after PKC activation. S286/T287/S288 phosphorylation is a key regulator of M2 desensitization, β-arrestin recruitment and internalization.</p> <p>Threonine307/Serine309 is a major phosphorylation site of the M2 Muscarinic Acetylcholine Receptor. The pT307/pS309-M2 antibody detects phosphorylation in response to high-efficacy agonists but not after PKC activation. T307/S309 phosphorylation is a key regulator of M2 desensitization, β-arrestin recruitment and internalization.</p> <p>Threonine310/Serine311 is a major phosphorylation site of the M2 Muscarinic Acetylcholine Receptor. The pT310/pS311-M2 antibody detects phosphorylation in response to high-efficacy agonists but not after PKC activation. T310/S311 phosphorylation is a key regulator of M2 desensitization, β-arrestin recruitment and internalization.</p> <p>Serine315/Serine320 is a major phosphorylation site of the M2 Muscarinic Acetylcholine Receptor. The pS315/pS320-M2 antibody detects phosphorylation in response to high-efficacy agonists but not after PKC activation. S315/S320 phosphorylation is a key regulator of M2 desensitization, β-arrestin recruitment and internalization.</p> <p>The non-phospho-M2 receptor antibody is directed against the 3rd loop of human M2 Muscarinic Acetylcholine Receptor (M2). It can be used to detect total M2 receptors in Western blots independent of phosphorylation. The non-phospho-M2 antibody can also be used to isolate and enrich M2 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://7mantibodies.com/phosphosite-7tm-antibodies/muscarinic-ach-receptors/m2/512/m2-sample-pack-phospho-and-non-phospho-m2-receptor-antibodies?c=786 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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