



Data Sheet (DS) 7TM0016C

Issuing Date: 2026-05-12

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| Description | pT315/pT316-M4 (phospho-M4 Muscarinic Acetylcholine Receptor Antibody) |
| Format | Purified, Liquid |
| Product Type | Rabbit Polyclonal Antibody |
| Isotype | Polyclonal IgG |
| Quantity | 100 µl |

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 M4 Muscarinic Acetylcholine Receptor was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography. | |
| Immunogen | A synthetic phosphopeptide derived from human M4 around the phosphorylation site of Thr315/Thr316. | |
| Storage Buffer | Dulbecco's PBS, pH 7.4, with 150 mM NaCl, 0.02% sodium azide | |
| Specificity | Threonine315/Threonine316 is a major phosphorylation site of the M4 Muscarinic Acetylcholine Receptor. The pT315/pT316-M4 antibody detects phosphorylation in response to high-efficacy agonists but not after PKC activation. T315/T316 phosphorylation is a key regulator of M4 desensitization, β -arrestin recruitment and internalization. | |
| 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 | |

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| Health and Safety Information | Material Safety Data Sheet documentation is available at https://7tmantibodies.com/phosphosite-7tm-antibodies/muscarinic-ach-receptors/m4/734/pt315/pt316-m4-phospho-m4-muscarinic-acetylcholine-receptor-antibody in the downloads section as: Safety Data Sheet EU Safety Data Sheet US |
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Related Products

[pS296/pS297-M4 \(phospho-M4 Muscarinic Acetylcholine Receptor Antibody\)](#)

[pT311/pS314-M4 \(phospho-M4 Muscarinic Acetylcholine Receptor Antibody\)](#)

[pS298/pS300-M4 \(IHC-grade\) phospho-M4 Muscarinic Acetylcholine Receptor Antibody](#)

[M4 \(non-phospho\) M4 Muscarinic Acetylcholine Receptor Antibody](#)

Details of the Supplier of the Data Sheet

Supplier

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