



**Data Sheet (DS) 7TM0016D-IC**

**Issuing Date:** 2026-05-12

Description	pS298/pS300-M4 (IHC-grade) phospho-M4 Muscarinic Acetylcholine Receptor Antibody
Format	Purified, Liquid
Product Type	Rabbit Polyclonal Antibody
Isotype	Polyclonal IgG
Quantity	300 µl

**Product Details**

Applications	This product has been reported to work in the following applications:	
		Dilution
	Immunohistochemistry	1:100
	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 <a href="https://7tmantibodies.com/7tm-antibodies-support/7tm-protocols/">https://7tmantibodies.com/7tm-antibodies-support/7tm-protocols/</a></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 Ser298/Ser300.	
Storage Buffer	Dulbecco's PBS, pH 7.4, with 150 mM NaCl, 0.02% sodium azide	
Specificity	Serine298/Serine300 is a major phosphorylation site of the M4 Muscarinic Acetylcholine Receptor. The pS298/pS300-M4 antibody detects phosphorylation in response to high-efficacy agonists but not after PKC activation. S298/S300 phosphorylation is a key regulator of M4 desensitization, β-arrestin recruitment and internalization. pS298/pS300-antibody can detect phosphorylated M4 in mouse brain in vivo.	
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	Material Safety Data Sheet documentation is available at <a href="https://7tmantibodies.com/phosphosite-7tm-antibodies/muscarinic-ach-receptors/m4/702/ps298/ps300-m4-ihc-grade-phospho-m4-muscarinic-acetylcholine-receptor-antibody?number=7TM0016D-IC">https://7tmantibodies.com/phosphosite-7tm-antibodies/muscarinic-ach-receptors/m4/702/ps298/ps300-m4-ihc-grade-phospho-m4-muscarinic-acetylcholine-receptor-antibody?number=7TM0016D-IC</a> in the downloads section as: <a href="#">Safety Data Sheet EU</a> <a href="#">Safety Data Sheet US</a>

### **Related Products**

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

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

[pT315/pT316-M4 \(phospho-M4 Muscarinic Acetylcholine Receptor Antibody\)](#)

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

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

#### **Supplier**

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