



Data Sheet (DS) 7TM0319-SP

Issuing Date: 2024-09-13

Description	MOP Sample Pack (phospho- and non-phospho- μ -Opioid Receptor Antibodies)
Format	Purified, Liquid
Product Type	Rabbit Polyclonal Antibody
Isotype	Polyclonal IgG
Quantity	5 x 20 μ l
Content	MOP Sample Pack consisting of all four available phospho- and one non-phospho- μ -Opioid Receptor Antibodies 5 x 20 μ L trial size each. Specifically, this sample pack contains the following antibodies pT370-MOP (7TM0319B), pS375-MOP (7TM0319C), pT376-MOP (7TM0319D) pT379-MOP (7TM0319E) and MOP (non-phos, C-Term) (7TM0319N).

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, Mouse, Rat	
Product Form	Purified IgG, liquid	
Antiserum Preparation	Antiserum to μ -Opioid 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 MOP around the phosphorylation site of Thr370 or Ser375 or Thr376 or Thr379. A synthetic peptide with the sequence LENLEAETAPLP which is present in carboxyl-terminal tail of human, mouse and rat MOP.	

Storage Buffer	Dulbecco's PBS, pH 7.4, with 150 mM NaCl, 0.02% sodium azide
Specificity	<p>Threonine370 (T370) is a major phosphorylation site of the μ-opioid receptor (MOP). The pT370-MOP antibody detects phosphorylation in response to high-efficacy agonists but to low-efficacy agonists. The pT370-MOP antibody also detects phosphorylation after PKC activation. T370 phosphorylation is a key regulator of MOP desensitization, β-arrestin recruitment and tolerance.</p> <p>Serine375 (S375) is the primary phosphorylation site in a hierarchical phosphorylation cascade. The pS375-MOP antibody detects phosphorylation in response to high- and low-efficacy agonists but not after PKC activation. S375 phosphorylation is a key regulator of MOP desensitization, β-arrestin recruitment and internalization. The pS375-MOP antibody can be used for detection of the subcellular location of phosphorylated MOP by immunocytochemistry.</p> <p>Threonine376 (T376) is a major phosphorylation site of the μ-opioid receptor (MOP). The pT376-MOP antibody detects phosphorylation in response to high-efficacy agonists but to low-efficacy agonists or after PKC activation. T376 phosphorylation is a key regulator of MOP desensitization, β-arrestin recruitment and tolerance.</p> <p>Threonine379 (T379) is a major phosphorylation site of the μ-opioid receptor (MOP). The pT379-MOP antibody detects phosphorylation in response to high-efficacy agonists but to low-efficacy agonists or after PKC activation. T379 phosphorylation is a key regulator of MOP desensitization, β-arrestin recruitment and tolerance.</p> <p>The non-phospho-μ-opioid receptor antibody is directed against the distal end of the carboxyl-terminal tail of mouse, rat and human MOP. It detects selectively the canonical form of MOP and none of the putative splice variants. It can be used to detect total MOP receptors in Western blots independent of phosphorylation. The non-phospho-MOP antibody can also be used to isolate and enrich μ-opioid receptors from brain lysates. It also detects MOP in cultured cells and tissue sections by immunohistochemistry. The non-phospho-MOP antibody has been validated using knockout mice (KO-Validated).</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/opioid-receptors/opioid-receptor-mop/468/mop-sample-pack-phospho-and-non-phospho-opioid-receptor-antibodies?c=489 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

Supplier

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