



[Go to Product page](#)

Datasheet for ABIN703210

## anti-Mu Opioid Receptor 1 antibody (pSer375)

2 Images

2 Publications

### Overview

Quantity:	100 µL
Target:	Mu Opioid Receptor 1 (OPRM1)
Binding Specificity:	pSer375
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Mu Opioid Receptor 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from rat mu Opioid Receptor around the phosphorylation site of Ser375
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Dog,Cow,Pig,Horse
Purification:	Purified by Protein A.

### Target Details

Target:	Mu Opioid Receptor 1 (OPRM1)
---------	------------------------------

## Target Details

---

Alternative Name:	<a href="#">mu Opioid Receptor (OPRM1 Products)</a>
Background:	<p>Synonyms: MOR4, Oprm, Oprm1, Mu-type opioid receptor, M-OR-1, MOR-1, Opioid receptor B, Oprm1, Ror-b</p> <p>Background: This gene encodes one of three opioid receptors. The mu opioid receptor is the principal target of endogenous opioid peptides and opioid analgesic agents such as beta-endorphin and enkephalins. The NM_001008503.1:c.118A&gt;G allele had been associated with opioid and alcohol addiction and variations in pain sensitivity but evidence is conflicting. Multiple transcript variants encoding different isoforms have been found for this gene.</p> <p>[provided by RefSeq, Jun 2012]</p>
Gene ID:	25601
UniProt:	<a href="#">P33535</a>
Pathways:	<a href="#">cAMP Metabolic Process</a> , <a href="#">Synaptic Membrane</a>

## Application Details

---

Application Notes:	WB 1:300-5000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200
Restrictions:	For Research Use only

## Handling

---

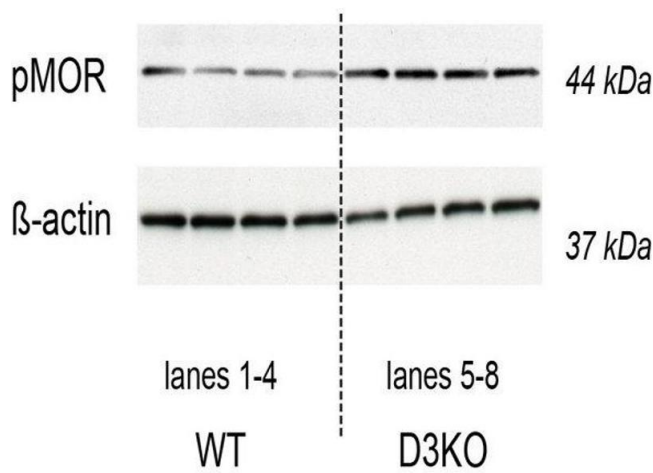
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Product cited in:

Laureano, Dalle Molle, Alves, Luft, Desai, Ross, Silveira: "Intrauterine growth restriction modifies the hedonic response to sweet taste in newborn pups - Role of the accumbal  $\mu$ -opioid receptors." in: **Neuroscience**, Vol. 322, pp. 500-8, (2016) ([PubMed](#)).

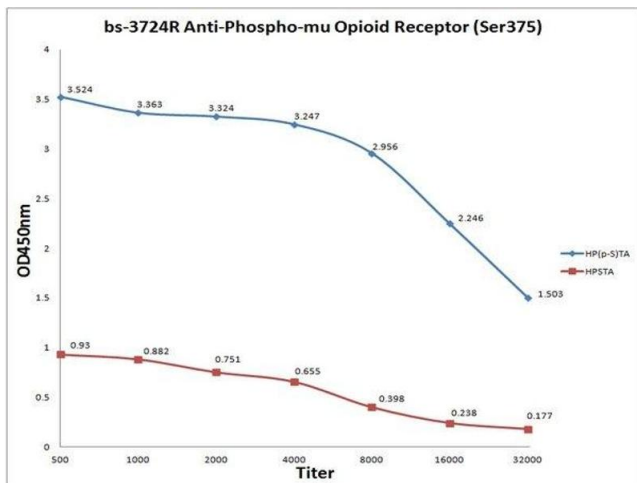
Brewer, Baran, Whitfield, Jensen, Clemens: "Dopamine D3 receptor dysfunction prevents anti-nociceptive effects of morphine in the spinal cord." in: **Frontiers in neural circuits**, Vol. 8, pp. 62, (2014) ([PubMed](#)).

Images



Western Blotting

**Image 1.** Image kindly provided by Dr. Stefen Clemens of East Carolina University. pMOR protein expression levels in the spinal cords of WT and D3KO mice (top lanes), and their respective  $\beta$ -actin protein expression (bottom panels). Rabbit Anti-mu Opioid Receptor (Ser375) Polyclonal Antibody was used at a dilution of 1:1000.



ELISA

**Image 2.** Antigen: Phospho Mu Opioid Receptor (blue line), 0.2ug/100ul, Mu Opioid Receptor (red line), 0.2ug/100ul Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000, Secondary: HRP conjugated Goat Anti-Rabbit IgG-HRP) at 1: 5000, TMB staining, Read the data in MicroplateReader by 450nm.