Opioid receptor μ polyclonal antibody

The opioid receptors δ, κ, and μ are members of the seven-transmembrane domain-containing receptor family of G-protein coupled receptors. δ- and μ-receptors serve as functional receptors for endogenous enkephalin and β-endorphin peptide ligands, respectively. δ-opioid receptors are highly expressed in the olfactory bulb, neocortex, caudate putamen and nucleus accumbens, with peripheral expression in the gastro-intestinal tract and vas deferens. δ-receptors inhibit neurotransmitter release resulting in a variety of biological effects including analgesia, motor integration, gastro-intestinal motility, olfaction, respiration, and memory. Neural μ-receptor expression is prominent in the caudate putamen, neocortex, thalamus, nucleus accumbens, hippocampus, and amygdala, as well as in peripheral nervous tissues in the gut. Named for its pharmacological mediation of analgesia by morphine, the μ receptor typically functions as a depressant in physiological processes including respiration, cardiovascular function, gastrointestinal motility, and thermoregulation.

This antibody is covered by our Worry-Free Guarantee.

Citations: 1 View Online »

Ordering Information

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ADI-905-744-100	100μg

Manuals, SDS & CofA

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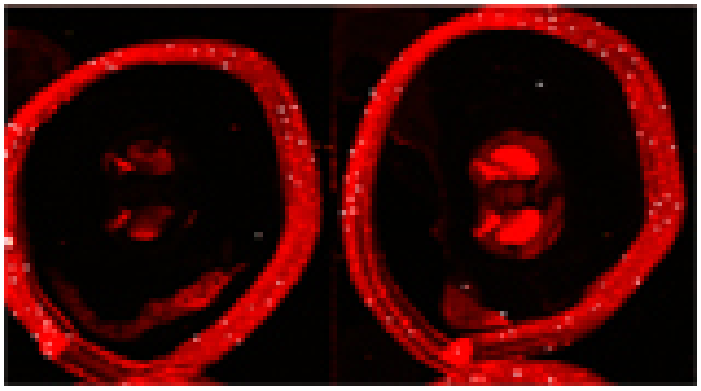
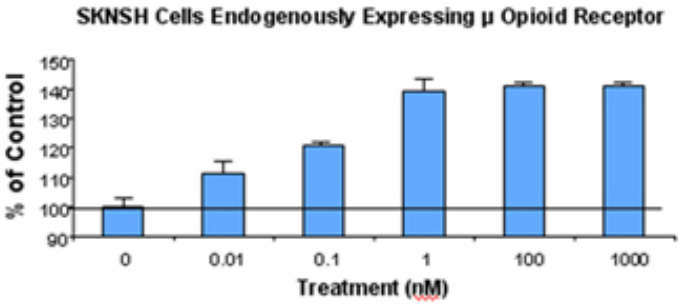
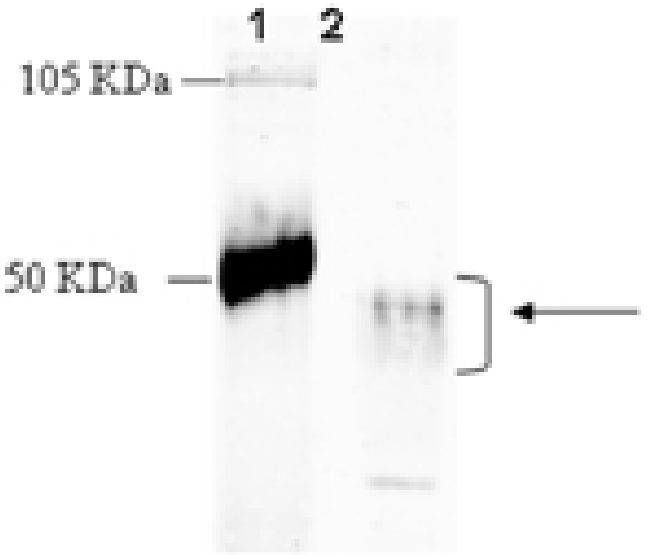


Immunohistochemistry analysis: Mouse brain sections untreated (left) or morphine-treated (right) were stained with Opioid Receptor μ pAb.



Cellular ELISA: SKNSH cells endogenously expressing Opioid Receptor μ were treated with indicated concentrations of agonist (DAMGO) and probed with Opioid Receptor μ pAb (1:500 of a stock solution of 1μg/μl) by ELISA. Data from vehicle treated cells were taken as 100%. Results are the mean ± SEM (n=3).



Western blot analysis: MW marker (1) and 20μg rat brain extract (2) probed with Opioid Receptor μ pAb at 1.3μg/ml.

Handling & Storage

Handling	Keep on ice at all times.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	OPRM1, MOR-1
Application	ELISA, IHC, WB
Application Notes	Suitable for cell-based and membrane-based ELISA. Predicted MW of ~44kDa. Higher MW species (~50kDa) also observed by Western blot which may reflect post-translational modification of the receptor.
Formulation	Liquid. In PBS containing 50% glycerol and 0.01% sodium azide.
Host	Rabbit
Immunogen	Synthetic peptide corresponding to the sequence near the N-terminus of mouse Opioid Receptor μ.
Purity Detail	Peptide affinity purified.
Species Reactivity	Human, Mouse, Rat
UniProt ID	P42866
Worry-free Guarantee	**This antibody is covered by our Worry-Free Guarantee.**

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