

Product datasheet for **AP01331PU-M**

Mu Opioid Receptor (OPRM1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 1/500-1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of MOR-1 protein. (region surrounding Ser57)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 15 mM Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~48 kDa
Gene Name:	opioid receptor mu 1
Database Link:	Entrez Gene 4988 Human P35372



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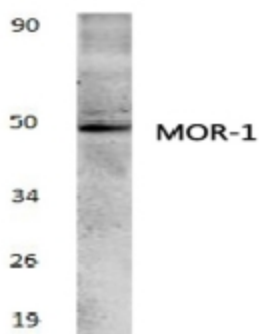
Background:

Three types of opioid receptors have been cloned: mu, delta, and kappa. Opioid receptors are seven transmembrane G-protein coupled receptors. They share a high degree of homology and are most divergent at the N- and C-termini. Activation of mu opioid receptors leads to a decrease in neuronal excitability. Most actions of exogenous opioids, such as morphine, are mediated through the μ -opioid receptor, including analgesia, tolerance and reward. In general, opioids modulate numerous central and peripheral processes including pain perception, neuroendocrine secretion and the immune response. The opioid signal is transduced from receptors through G proteins to various different effectors. Subsequent to G protein activation, several effectors are known to orchestrate the opioid signal. For example, activation of opioid receptors increases phosphatidylinositol turnover, activates K⁺ channels and reduces adenylyl cyclase and Ca⁺⁺ channel activities.

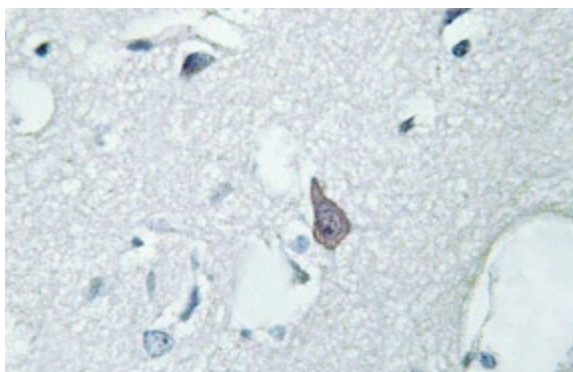
Synonyms:

Mu-type opioid receptor, MOR1

Product images:



Western blot analysis of OPRM1 antibody (Cat.-No [AP01331PU-N]) in extracts from THP1 cells at 1/500 dilution.



Immunohistochemistry analysis of OPRM1 antibody (Cat.-No [AP01331PU-N]) in paraffin-embedded human brain tissue.