

## Polyclonal Antibody to Opioid Receptor - Aff - Purified

**Catalog No.:** AP06257PU-N

**Quantity:** 0.1 mg

**Concentration:** 1.0 mg/ml

**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  $\mu$ -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<sup>+</sup> channels and reduces adenylyl cyclase and Ca<sup>++</sup> channel activities.

**Host:** Rabbit

**Immunogen:** Synthetic peptide, corresponding to amino acids C-terminus of Human MOR-1.

**Format:** **State:** Liquid purified Ig fraction

**Purification:** Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)

**Buffer System:** Phosphate buffered saline (PBS), pH 7.2.

**Preservatives:** 0.05% sodium azide

**Applications:** **Western blot:** 1/500-1/1000.

**Immunohistochemistry on paraffin sections:** 1/50-1/200.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Molecular Weight:** ~ 30 to 60 kDa

**Specificity:** This antibody detects endogenous levels of Opioid Receptor protein. (region surrounding asn369)

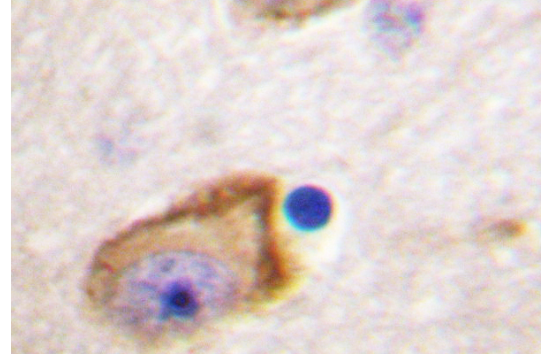
**Species Reactivity:** **Tested:** Human.

**Expected from sequence similarity:** Mouse and Rat.

**Storage:** Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**Pictures:**

**Immunohistochemistry (IHC)** analyzes of Opioid Receptor antibody (Cat.-No.: AP06257PU-N) in paraffin-embedded human brain tissue.



**Western blot (WB)** analysis of Opioid Receptor antibody (Cat.-No.: AP06257PU-N) in extracts from 293 treated with EGF 200ng/ml 30'.

