

AM00981PU-N**Monoclonal Antibody to Morphine - Purified**

Quantity:	1 mg
Concentration:	3.35 mg/ml
Background:	Morphine is thought to produce reinforcement phenomena via stimulation of mu, delta, and kappa opioid receptors that regulate stress perception, pain control, reward behavior, and neurohormone secretion in reward-relevant brain systems. It has the highest affinity for mu, followed by delta and kappa. Rapid activation of the mu opioid receptor by morphine results in a euphoric phenotype, thus conferring the reinforcing effects of the drug. This activation is accompanied by extracellular dopamine release, which alters several events related to the cAMP signal transduction pathway. Of particular significance is that CREB seems to be modified by morphine, thereby affecting addictive behavioral phenomena, such as withdrawal symptoms.
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	AM03095PU-N
Clone:	BDI263
Immunogen:	Morphine-BTG
Format:	State: Liquid purified Ig fraction Purification: Protein G Chromatography Buffer System: 10mM Sodium Phosphate, pH 7.2 containing 0.85% (w/v) Sodium Chloride Preservatives: 0.05% Sodium Azide
Applications:	Tested in a rapid test (lateral flow) format. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts with Morphine and Codeine. Cross reactivity was determined by ELISA with competition assays. Does not react with Nalorphine, Meperidine or Methadone.
Storage:	Store undiluted at 2-8°C. Shelf life: one year from despatch.