

Product datasheet for **AM00981PU-N**

Morphine Mouse Monoclonal Antibody [Clone ID: BDI263]

Product data:

Product Type:	Primary Antibodies
Clone Name:	BDI263
Applications:	ELISA, LF
Recommended Dilution:	Tested in a rapid test (lateral flow) format.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Morphine-BTG
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.
Formulation:	10mM Sodium Phosphate, pH 7.2 containing 0.85% (w/v) Sodium Chloride State: Purified State: Liquid purified Ig fraction Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.



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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.