

12-8163: Anti-Morphine-6 Antibody (17201)

Clonality :	Monoclonal
Clone Name :	MOR101
Application :	ELISA
Isotype :	Mouse IgG1
Immunogen Information :	Morphine conjugated at the C6 position to bovine serum albumin.

Description

Specificity: This antibody has a Kd of 2 nM for morphine and related alkaloids (e.g., codeine, nalorphine, and naltrexone).
Background: Morphine is an opioid analgesic derived from the opium poppy plant that is a powerful pain-relieving medication used to treat both acute and chronic pain. Morphine binds to specific receptors in the brain and spinal cord known as opioid receptors and by doing so, modulates the perception of pain and alters the emotional response to it. However, its use is associated with the risk of addiction and dependence. Diagnostic testing for morphine abuse typically involves urine, blood, or hair analysis. Urine tests are commonly employed, detecting the presence of morphine or its metabolites and providing valuable information for healthcare professionals in assessing and addressing substance abuse issues related to this potent opioid.

Product Info

Amount :	500µg
Purification :	Preparation: Antibodies are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates. Concentration: Lot Specific
Content :	Formulation: This monoclonal antibody is formulated in phosphate buffered saline (PBS) pH 7.2 - 7.4 with no carrier protein or preservatives added.
Storage condition :	Upon initial thawing, appropriately aliquot and store at -80°C. For long-term storage, keep at -80°C. Avoid repeated freeze-thaw cycles.

Application Note

This antibody may be used in immunoassays for detection of alkaloid/narcotic drugs. Other applications are under investigation.