Anti-Morphine [12D4] Bulk Size Ab00521-1.1-BT

Isotype and Format: Mouse IgG1, Lambda
Clone Number: 12D4
Alternative Name(s) of Target: Morphium; (5alpha,6alpha)-17-Methyl-7,8-didehydro-4,5-epoxymorphinan-3,6-diol
UniProt Accession Number of Target Protein:
Published Application(s): WB, ELISA
Published Species Reactivity: Species independent
Immunogen: Morphine-6-hemisuccinate conjugated with BSA.
Specificity: The antibody binds to morphine with an affinity (Kd) of 46 nM.
Application Notes: The antibody binds specifically to morphine, an alkaloid opiate drug derived from the opium poppy administered for the management of narcotic pain. Morphine exerts its effects by binding to μ opiate receptors in the central nervous system and gastrointestinal tract, leading to analgesia and sedation, thereby increasing the patient's tolerance to pain. The monoclonal antibody 12D4 recognises the N-methyl to N-allyl substitution in the conversion of morphine to nalorphine.
Antibody First Published in: Glasel JA, Bradbury WM, Venn RF. Properties of murine anti-morphine antibodies. Mol Immunol. 1983 Dec;20(12):1419-22. PMID:6361525
Note on publication: Describes the isolation of four high affinity monoclonal antibodies against morphine.

Product Form

Size: 1 mg Purified antibody in bulk size.
Purification: Protein A affinity purified
Supplied In: PBS only.
Storage Recommendation: Store at 4ºC for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommed this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20ºC.
Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.

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