

Anti-Morphine [12D4] Standard Size, 200  $\mu g,$  Ab00521-1.6 View online

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This is a Fab fragment with a his-tag.

This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse Fab fragment, His-Tagged, Lambda Clone Number: 12D4 Alternative Name(s) of Target: Morphium; (5alpha,6alpha)-17-Methyl-7,8-didehydro-4,5epoxymorphinan-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:** 200 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In: PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at - 20°C.

**Concentration:** 1 mg/ml.

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

© 2024 Absolute Antibody Wilton, UK. procedures for humans or animals.