

Anti-Morphine [MOR131 (MOR131.5.13)] Bulk Size Ab03755-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted human IgG1 Fc Silent Fc Silent™ antibody, based on the original human IgG1 format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Lambda

Clone Number: MOR131 (MOR131.5.13)

Alternative Name(s) of Target: Morphinum; Codeine; Ethylmorphine; Dihydromorphine; Dihydrocodeine; Dihydromorphinone; Dihydrocodeinone; Norcodeine; ChEBI: 17303

UniProt Accession Number of Target Protein:

Published Application(s): RIA, ELISA

Published Species Reactivity: Species independent

Immunogen: The original antibody was generated by immunizing female BALB/c mice with morphine-BSA conjugate.

Specificity: This antibody binds morphine and cross reacts with other opioids like codeine, ethylmorphine, dihydromorphine, dihydrocodeine, dihydromorphinone, dihydrocodeinone and norcodeine. Morphine is a strong opiate that is found naturally in opium, a dark brown resin in poppies (*Papaver somniferum*). It is considered the classic opioid analgesic, most commonly used in pain management, morphine provides major relief to patients afflicted with pain. It is a non-synthetic narcotic with a high potential for abuse.

Application Notes: The initial binding reactivity and cross reactivity of this antibody to morphine and other opioids was determined using ELISA and radioimmunoassay (PMID: 3211162; 8417377).

Antibody First Published in: Sawada et al. Production and characterization of high-affinity monoclonal antibodies against morphine. Mol Immunol. 1988 Sep;25(9):937-43. [PMID:3211162](#)

Note on publication: Describes the generation and characterization of twelve 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 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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 procedures for humans or animals.