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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Morphine [M86] Bulk Size Ab03754-30.11-BT

This is an scFv fragment with a His tag.

This is a reformatted mouse scFv antibody, based on the original mouse scFv format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: scFv fragment (His), ScFv

Clone Number: M86

Alternative Name(s) of Target: Morphium; Codeine; Heroin; Opium; ChEBI: 17303; FERM ABP-11378

UniProt Accession Number of Target Protein:

Published Application(s): ELISA

Published Species Reactivity: Species independent

Immunogen: The original antibody was generated by immunizing BALB/c mice with morphine-BSA conjugated fusion protein. A mouse scFv library was generated from the spleen cells and the particular antibody was isolated by panning against morphine-conjugated thyroglobulin (morphine-C-Tg).

Specificity: This antibody binds morphine and cross reacts with other opioids like opium, codeine and heroin. 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 binding reactivity of this antibody for morphine conjugated thyroglobulin (morphine-C-Tg) was done using ELISA. The original scFv antibody binds morphine-C-Tg with a binding affinity of $K_d = 0.126$ nM. It was reported that this antibody does not cross react with thyroglobulin conjugated codeine-, cocaine-, or ketamine. However, this antibody is capable of cross reacting with free morphine, opium, codeine and heroin. The IC_{50} values of M86 scFv for opium, morphine, codeine and heroin was 257 ng/mL, 36.4, 7.3 and 7.4 nM, respectively (Matsukizono et al., 2013; JP2012232948).

Antibody First Published in: Matsukizono et al. Characterization of a Single Chain Fv Antibody that Reacts with Free Morphine. *Antibodies* 2013, 2(1), 93-112. [PMID:](#)

Note on publication: This paper describes the generation of and characterization of an scFv antibody against morphine.

Product Form

Size: 500 µg Purified antibody in bulk size.

Purification: Purified by Immobilized Metal Affinity Chromatography

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.