



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-Morphine [M86] Bulk Size Ab03754-10.3-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 scFv format, created for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human IgG1, Fc Silent™, Kappa

**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 IC50 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:** 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.