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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Anti-Morphine [9B1] Standard Size Ab03753-10.0

Isotype and Format: Human IgG1, Lambda

Clone Number: 9B1

Alternative Name(s) of Target: Morphium; 6-MAM; 6-monoacetylmorphine; heroin; hydrocodone; opioids; opium; ChEBI: 17303

UniProt Accession Number of Target Protein:

Published Application(s): ELISA

Published Species Reactivity: Species independent

Immunogen: The original antibody was generated by immunizing mouse with 3-carboxymethyl-morphine conjugated to bovine serum albumin.

Specificity: This antibody binds morphine and cross reacts with multiple addictive opioids including 6-MAM, morphine, heroin, and hydrocodone, shows weak binding for meperidine, oxycodone and fentanyl without significant binding to currently available OUD treatment agents naloxone, naltrexone, and buprenorphine. 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 original IgG antibody binds morphine with a binding affinity of $K_D = 33.7$ nM, and also binds 6-MAM ($K_d = 4.8$ nM), heroin ($K_d = 1.3$ nM) and hydrocodone ($K_d = 8.2$ nM) (PMID: 33356138). The binding ability of this antibody to a variety of drugs was determined using ELISA (PMID: 33356138).

Antibody First Published in: Pozharski et al. Anchoring a cationic ligand: the structure of the Fab fragment of the anti-morphine antibody 9B1 and its complex with morphine. *J Mol Biol.* 2004 Mar 26;337(3):691-7. [PMID:15019787](#)

Note on publication: Describes the crystal structure of this antibody in combination with morphine.

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

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 procedures for humans or animals.