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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Cocaine [15A10] Standard Size Ab03749-10.3

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: 15A10

Alternative Name(s) of Target: Benzoylmethylecgonine; coca; coke; crack; ChEBI: 27958

UniProt Accession Number of Target Protein:

Published Application(s): in vivo, ELISA

Published Species Reactivity: Species independent

Immunogen: The original antibody was generated by immunizing BALB/c mice with BSA conjugated transition state analogs of cocaine.

Specificity: This antibody hydrolyzes the benzoyl ester of cocaine to form the nonpsychoactive metabolites benzoic acid and ecgonine methylester. Cocaine is a strong stimulant used clinically as a local analgesic and vasoconstrictor and illegally as a recreational drug.

Application Notes: This catalytic antibody is capable of cocaine to its non psychoactive metabolites. The rate of acceleration of the catalytic antibody was reported to be ($k_{cat}/k_{uncat} = 2.3 \times 10^4$). Competitive ELISA was used for the detection of binding of this antibody to the transition-state analogue of cocaine (Yang et al., 1996). In a model of cocaine overdose, this antibody protected rats from cocaine-induced seizures and sudden death in a dose-dependent fashion; a noncatalytic anticocaine antibody did not reduce toxicity. In a model of cocaine addiction, this antibody blocked completely the reinforcing effect of cocaine in rats (PMID: 9707620).

Antibody First Published in: Landry et al. Anti-cocaine catalytic antibodies--a novel approach to the problem of addiction. J Addict Dis. 1997;16(3):1-17. [PMID:9243335](#)

Note on publication: Describes the generation of catalytic antibodies with hydrolytic activity against cocaine.

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.