

## Anti-Cocaine [GNC92H2] Standard Size Ab00351-6.4

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

This chimeric rat antibody was made using the variable domain sequences of the original mouse IgG1 format for improved compatibility with existing reagents, assays and techniques.

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

**Clone Number:** GNC92H2

**Alternative Name(s) of Target:** Benzoylmethylecgonine

**UniProt Accession Number of Target Protein:**

**Published Application(s):** ELISA

**Published Species Reactivity:** n/a

**Immunogen:** Benzoylecgonine-KLH conjugate.

**Specificity:** Specifically binds to Benzoylmethylecgonine (Cocaine) with a  $K_d = 4E-7$ , which is 100-fold difference in  $K_d$  to the carboxylic acid metabolite Benzoylmethylecgonine

**Application Notes:** This antibody binds to cocaine, a strong stimulant used clinically as a local analgesic and vasoconstrictor, as well as illegally as a recreational drug.

**Antibody First Published in:** Larsen et al. 2001 Crystal Structure of a Cocaine-binding Antibody. Journal of Molecular Biology 2001; 311:9-15 [PMID:11469854](#)

**Note on publication:** Describes the generation and humanisation of a cocaine-binding antibody and the determination of its crystal structure.

## Product Form

**Size:** 200 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.