

## Anti-Cocaine [GNC92H2] Standard Size Ab00351-10.7

This antibody is in our proprietary AbFab2™ recombinant F(ab2) format - based on Human IgG1 sequence with a short dimerization domain to improve stability and a his tag.

This chimeric human 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:** Human F(ab)2, AbFab2™ His-Tagged, 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:** Purified by Immobilized Metal Affinity Chromatography

**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.