Anti-Testosterone [77 Fab] Standard Size Ab00418-1.1

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

Isotype and Format: Mouse IgG1, Kappa
Clone Number: 77 Fab
Alternative Name(s) of Target: Fab77; Fab 77
UniProt Accession Number of Target Protein:
Published Application(s): crystallography, ELISA
Published Species Reactivity: Species independent
Immunogen: Testosterone.
Specificity: This antibody is specific for testosterone, a steroid hormone secreted by the testicles that acts as the principle male sex hormone and anabolic steroid.
Application Notes: This antibody binds to The original version of this antibody (mouse Fab) was shown to bind testosterone with a K_d of 0.3 nM and an ED_{50} of 4.8 nM (Valjakka et al., 2002; PMID: 12196551). The binding mechanism of this antibody was explored via crystallography (Niemi et al., 2011; 21360611).
Antibody First Published in: Valjakka et al. Crystal structure of an in vitro-affinity- and specificity-matured anti-testosterone Fab in complex with testosterone. Improved affinity results from small structural changes within the variable domains. Journal of Biological Chemistry 2002; 277(46):44021-44027 PMID:12196551
Note on publication: The original publication describes the generation and structural analysis of a highly selective, high-affinity anti-testosterone Fab fragment, highlighting small structural changes within the variable domains that result in improved affinity and specificity through comprehensive packing of testosterone with the protein.

Product Form

Size: 200 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -20ºC.
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.