

Anti-Taq-Polymerase [TP7] Standard Size Ab00413-23.0

This reformatted rabbit antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: TP7

Alternative Name(s) of Target: Taq DNA Pol; Thermostable DNA-Polymerase I

UniProt Accession Number of Target Protein: P19821

Published Application(s): ELISA

Published Species Reactivity: T. aquaticus

Immunogen: Taq-Polymerase.

Specificity: This antibody binds to Taq-Polymerase with a K_d of 1 nM.

Application Notes: This antibody binds to Taq-polymerase, a thermostable DNA polymerase from a thermophilic bacterium frequently used in PCR as its optimum temperature is about 75-80°C and is still active at temperatures up to 92.5°C. The antibody competes with DNA for Taq-binding.

Antibody First Published in: Murali et al. Structural studies on an inhibitory antibody against Thermus aquaticus DNA polymerase suggest mode of inhibition. Protein Engineering 1998; 11(2):79-86

[PMID:9605541](#)

Note on publication: Describes the crystallisation of Taq-Polymerase with TP7 to identify the mechanism of inhibition and surface contacts.

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.