



# Anti-Taq Antibody

## Product Description

Store at -25°C -15°C

Cat. No.	Description	Quantity
G930	Anti-Taq Antibody	250 U (50 µl)

**abm's** Anti-Taq Antibody is an ideal tool for hot-start PCR with Taq DNA polymerase. The Anti-Taq Antibody binds to Taq DNA polymerase and arrests the activity of Taq DNA Polymerase, preventing non-specific and primer dimer amplification resulted from non-specific priming at ambient temperature for the duration of time prior to PCR thermal cycling. During the initial denaturing step in PCR thermal cycling, the Anti-Taq Antibody is denatured and the Taq DNA polymerase is then released, thus regaining its full DNA polymerase activity.

## Shipping and Storage

Keep at -25°C to -15°C for long term storage, up to 2 years from the date of shipping when stored and handled properly; antibody may freeze at -20°C and the antibody is stable to undergo at least 20 freeze/thaw cycles.

## Unit Definition

One unit is defined as the amount of Taq Antibody that arrests 1 unit of Taq polymerase activity by more than 90% after being incubated at 55°C for 10 minutes. Prior to the assay, Anti-Taq antibody should have been bound to Taq polymerase by incubating the antibody/Taq mixture at 25°C for at least 10 minutes.

## Protocol

Reactions should be assembled in a nuclease-free environment. DNA sample preparation, reaction mixture assemblage and the PCR process, in addition to the subsequent reaction analysis, should be performed in separate areas. The use of "clean", automatic pipettors designated for PCR and aerosol resistant barrier tips are recommended.

1. Mix Anti-Taq Antibody with Taq DNA polymerase gently in 1:1 volume ratio, then incubate the mixture at 20 - 25°C without disturbance for 10 - 15 minutes. It is highly recommended not to further dilute this mixture in this coupling step.
2. Perform PCR with the Taq/Antibody mixture following the normal protocol of the Taq DNA polymerase being used in the experiment.

Note: **abm** confirms that the Anti-Taq Antibody works effectively in conjunction use with **abm's** Taq DNA Polymerase (Cat. No. G009/C008/G126)



All **abm** PCR, RT-PCR, and qPCR products are ISO 13485:2003 and 13485:2012 certified as diagnostic grade and in compliance with all regulatory requirements for the design and manufacture of medical devices, as outlined by the International Organization for Standardization (ISO). For technical questions, please email us at [technical@abmgood.com](mailto:technical@abmgood.com) or visit our website at [www.abmGood.com](http://www.abmGood.com).