

Anti-Taq DNA Polymerase Antibody

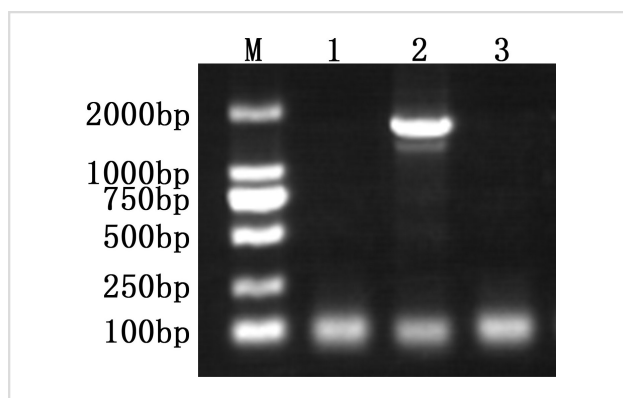
Catalog No: #48369

Package Size: #48369-1 50ul

Description

Product Name	Anti-Taq DNA Polymerase Antibody
Host Species	Mouse
Clonality	Monoclonal
Purification	ProG affinity purified
Applications	Antibody-mediated hot start PCR
Immunogen Description	Taq DNA Polymerase
Conjugates	Unconjugated
Storage	Store at -20°C

Images



Application of the hot start PCR using anti-Taq DNA Polymerase antibody

Lane1: Taq DNA Polymerase

Lane2: Taq DNA Polymerase + Anti-Taq DNA Polymerase antibody

Lane3: Taq DNA Polymerase + Control antibody

Background

Polymerase Chain Reaction (PCR), invented by Kary B. Mullis, at the Cetus Corporation, who was awarded the 1993 Nobel Prize for chemistry for PCR, is a technique to exponentially amplify in vitro a small quantity of a specific nucleotide sequence using a thermostable (Taq) DNA polymerase. 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. The result indicates that anti-Taq DNA Polymerase antibody increases the specificity and sensitivity of the PCR.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.