Anti-Taq DNA Polymerase Antibody

Catalog No: #48369

Package Size: #48369-1 50ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Description

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

Images



| Application of the hot start PCR using anti-Taq DNA |
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| Polymerase antibody |
| Lane1: Taq DNA Polymerase |
| Lane2: Taq DNA Polymerase + Anti-Taq DNA Polymerase |
| antibody |
| Lane3: Taq DNA Polymerase + Control antibody |
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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