



Ver. HB230110

# Hieff™ Double-Block Anti-Taq DNA Polymerase Antibody

## Product description

Hieff™ Double-Block Anti-Taq DNA Polymerase Antibody is a double blocking Taq DNA Polymerase monoclonal antibody for hot start PCR. It can inhibit the activity of 5' - 3' polymerase and 5' - 3' exonuclease after binding to Taq DNA Polymerase, which can effectively inhibit the nonspecific annealing of primers and the nonspecific amplification caused by primer dimer at low temperature. In addition, the product can effectively prevent probe degradation. Hieff™ Double-Block anti-Taq DNA Polymerase Antibody is denatured in the initial DNA denaturation step of PCR reaction, through which the activity of DNA polymerase is restored to achieve the effect of hot start PCR. It can be used under the condition of routine PCR reaction without special inactivation of antibody.

## Applications

The concentration of this product is 5 mg/mL. 1  $\mu$ L antibody could block the activity of 20-50 U Taq DNA polymerase. It is recommended to mix the antibody and the Taq DNA polymerase at room temperature for 1 hour (incubate at room temperature for 2 hours when volume is greater than 200 mL, and customer should adjust the process when applied to larger volume), and then store at -20°C overnight before use.

Note: The specific activity of different Taq DNA Polymerase is variant, the blocking ratio need to be adjusted appropriately to achieve that the blocking efficiency is better than 95%.

## Components

Components No.	Name	31303ES60	31303ES80	31303ES90	31303ES92	31303ES93	31303ES94
31303	Hieff™ Double-Block Anti-Taq DNA Polymerase Antibody	100 $\mu$ g	1 mg	5 mg	10 mg	100 mg	1000 mg

## Specifications

Classification	Monoclonal
Type	Antibody
Antigen	Taq DNA Polymerase
Form	Liquid

## Shipping and Storage

The product is shipped with ice packs and can be stored at -25°C~-15°C for 2 years.

## Notes

Please wear the necessary PPE, such lab coat and gloves, to ensure your health and safety!