Taq DNA Polymerase Antibody

Cat.No.:HYA112

Product Description

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.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.

Components

Components	Size-1	Size-2	Size-3
Taq DNA Polymerase Antibody	1 mg	10 mg	100 mg

Storage

Store at -25℃~-15℃ for 2 years.

Applications

The concentration of this product is 5 mg/mL. 1 μL 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℃ 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%.

Quality Control

1. Exonuclease residue detection: 1 μg of the product and 0.5 μg of λDNA-Hind III, incubated at 37℃ for 4 h, the electrophoretic bands of DNA were unchanged.

2. Nickase residue test: 1 μg of the product and 0.5 μg of IL23R plasmid, incubated at 37℃ for 4 h, the electrophoretic bands of DNA were unchanged.
3. RNase residue detection: 1 μg of the product and 0.5 μg of total RNA from 293T cells, incubated at 37℃ for 4 h, the electrophoretic bands of RNA were unchanged.

Notes

1. For your safety and health, please wear a lab coat and disposable gloves.
2. For Research Use Only!