Product Manual

Product Name	Anti-Taq DNA Polymerase antibody
Source	Mouse
Catalog Number	CSB-DA403AmN①
Physical Form	Liquid
Enzyme Activity	5U/μL
Storage Conditions	-20 ±5°C
Storage Buffer	10 mM Tris-HCl, 100 mM KCl, 1 mM DTT, 0.1 mM EDTA, 0.5% Tween 20, 0.5% IGEPAL CA630, 50% Glycerol
Activity Definition	The amount of Taq Antibody that can inhibit more than 90% of 1U unit Taq DNA Polymerase activity under the condition of 55°C for 10 minutes is defined as 1 unit (U) of activity.
Quality Control	No DNase, RNase activity; no exo- and endonuclease activity; PCR testing shows no microbial genomic residue.
Shelf Life	24 months

Product Descriptionp

Taq Antibody is a monoclonal antibody against Taq DNA polymerase used in hot start PCR. It can bind to Taq DNA polymerase and inhibit its activity, effectively suppressing non-specific annealing of primers and non-specific amplification caused by primer dimers. Taq Antibody can undergo denaturation in the initial DNA pre denaturation step of PCR reaction, so using this product does not require special Taq Antibody inactivation treatment. Taq DNA polymerase can be used under conventional PCR reaction conditions

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Product components

Component Number	Component Name	Specifications		
1	Anti-Taq DNA Polymerase antibody	500 U	2500 U	5000 U

Usage of Product Components

1. Mix CSB-DEM023 Taq DNA Polymerase (5U/μL) and Taq Antibody (5U/μL) in equal volumes and let it stand at 20-25°C for about 20 minutes before use.

2. Perform PCR reaction according to the reaction conditions of each DNA polymerase.Experimental results have shown that Taq Antibody can be used in combination with CSB-DEM023 Taq DNA Polymerase, yielding good experimental results.

Note

Due to differences in specific activities of Taq enzymes from different manufacturers, if using Taq enzymes from other manufacturers, it is recommended to adjust the ratio appropriately before large-scale preparation. It is advisable to conduct a gradient experiment first, such as 1:0.5, 1:1, 1:1.5, 1:2, etc., to determine the optimal ratio.

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