

Taq Antibody

For research use only

Cat. No./Spec.: P9131/500 U; P9132/5,000 U
Concentration: 10 U/ μ L

Description

Taq Antibody is a monoclonal antibody against Taq DNA polymerase used in Hot Start PCR that binds to Taq to inhibit DNA polymerase activity and effectively inhibit nonspecific annealing of primers and nonspecific amplification induced by primer dimers. Anti-Taq antibodies denature during the initial DNA denaturation step of the PCR reaction, so no special anti-Taq antibody inactivation treatment is required for the use of this product. The Taq enzyme can be used under conventional PCR conditions.

Components

Component	P9131 (500 U)	P9132 (5,000 U)
Taq Antibody (10 U/ μ L)	50 μ L	500 μ L

Storage Buffer

22 mM Tris-HCl (pH8.0), 100 mM KCl, 15 mM NaCl, 15 mM EDTA, 1 mM DTT, 0.5% Tween20, 0.5% Nonidet P-40, 50% Glycerol.

Storage

This reagent should be kept at -20°C.

Unit Definition

Mix Taq Antibody with Taq DNA Polymerase, warm bath for 10 min at 25°C. The amount of Taq Antibody that inhibits more than 90% of the activity of Taq DNA Polymerase of 1 U for 10 min at 55°C is defined as 1 U.

Application

It is suitable for hot-start PCR and quantitative PCR reactions based on Taq DNA polymerase.

Usage

1. Mix Taq DNA Polymerase (5U/ μ L) with 1/2 volume of Taq Antibody and placed at 37°C for 120 min for use. For PCR that require very high specificity and sensitivity, appropriately increase the proportion of Taq Antibody. The definition of the activity of Taq DNA Polymerase varies from manufacturer to manufacturer, so it is necessary to set up a gradient experiment to determine the optimal modification ratio.
2. Then the PCR reaction can be performed according to the normal PCR reaction conditions of DNA Polymerase.