

Monoclonal Antibody to Pfu DNA Polymerase

DESCRIPTION

Monoclonal Anti-Pfu Polymerase antibodies (antiPfu Pol) were derived from hybridoma (fusion of mouse myeloma cell and cells after mouse immunization with Pfu DNA Polymerase (cloned).

Anti-Pfu Pol antibodies (clone G11) are highly specific to Polymerization region of wild type Pfu, cloned Pfu; Pfu- based mutants, blocking polymerase activity at room temperature and up to 60°C. They binds to enzyme with high affinity, forming very temperature-stable protein/protein complex, which degrades at the temperatures higher 70-72°C, liberating active Pfu polymerase into PCR reaction.

The product avoids miss-priming and primer-dimer formation, increasing specificity of PCR and PCR product yield. (Ig subtype –IgG2b)

SOURCE:

Mouse monoclonal antibodies (clone G11)

UNIT DEFINITION

One unit is defined as the amount of antibodies required to blocks 50% activity of 1 µg of Pfu Polymerase

PURITY:

>95-97% according gel electrophoresis

APPLICATIONS:

- Hot-Start mode PCR amplification
- Long-distance PCR
- High Fidelity PCR
- "Direct-blood" PCR
- "Fast-PCR"

STORAGE CONDITIONS :

Store anti-Pfu Pol DNA Polymerase at -20°C for long term storage(glycerol buffer)

Store anti-Pfu Pol DNA Polymerase at +4°C (glycerol free buffer)

For 24 months

SHIPPING CONDITIONS:

Should be shipped at ambient temperature or with blue ice

How to mix Anti-Pfu Polymerase Monoclonal antibodies Application

Anti-Pfu Mabs reacts with the most of Pfu based enzymes – "wild-types" Pfu (cloned), native Pfu and most of mutated Pfu-based enzymes, as far as Mabs clone G11, chosen on the reactivity with the both mutated and wild type cloned Pfu Polymerases.

1. The quantity of Mabs for preparation of hot-start Pfu polymerase should be titrated in accordance of the specific activity of each enzyme lot.
2. Usually, it is better to start from rate Enzyme/Mabs (mg) – 1:1. 1mg of Mabs to 1mg of protein, and titrate to the increasing of concentration of enzyme.
3. If Glycerol containing storage buffer is used, let preparation to stay at room temperature after addition of Mabs to enzyme preparation, and their mixing, at least 0,5 hour, before using in PCR.
4. Store enzyme/Mabs preparation at -20°C, upon using.
5. For several days enzyme-Mabs mix should be stored at +4°C.

Ordering information:

Cat.-no	Description	Amount
S135	MAB to Pfu	100 µg
S135L	MAB to Pfu	500 µg

.. a good decision ..

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