

Data sheet

This data sheet provided for information only

MONOCLONAL ANTI-TAQ DNA POLYMERASE ANTIBODIES**RESEARCH USE ONLY****Mouse monoclonal antibodies****Clone: AHO16****SOURCE:**

Mouse monoclonal antibodies

Cat. No.	Pack	Conc.
D-AT101	0.1mg	2-10* mg/ml
D-AT102	1.0 mg	2-10* mg/ml

DESCRIPTION

Monoclonal anti-Taq Polymerase antibodies (anti-Taq Pol) derived from hybridoma (fusion of mouse myeloma cell and cells after mouse immunization with Taq DNA Polymerase (cloned). **Anti-Taq Pol antibodies (clone AHO16)** are highly specific to Polymerization region of Taq, truncated Taq (KlenTaq), Taq- based mutants or Tth polymerases (to the different epitope than Mabs Clone **AHO3, cat. No. Dia-A0301/302** and **AHO2, cat. No. Dia-A0201/202**), blocking polymerase activity at temperatures up to 60°C. They binds to enzyme with high affinity, forming very temperature-stable protein/protein complex, which degradates at the temperatures higher **70-72°C**, liberating active Taq polymerase into PCR reaction.

Stability:

Shelf life 24 months if store at -20°C (for Mabs in glycerol buffer).

Shelf life 24 months if store at +4°C (for Mabs in glycerol free buffer).

*** -10 mg/ml or higher concentration available only for glycerol free storage buffer****UNIT DEFINITION**

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

STORAGE AND DILUTION BUFFER:**No.1:** 20mM Tris-HCL (pH 7.0, at 22°C); 50 mM KCL;0.1mM EDTA; 50% glycerol**No.2** (glycerol free): 20mM Tris-HCL (pH 7.0, at 22°C);0.1% NaN₃**PURITY:**

>97-98% according gel electrophoresis

APPLICATIONS:

- Hot-Start mode PCR amplification

Note: Preparation of hot-start Polymerase blend with anti-Taq Pol Mabs should be optimized for every type of Taq polymerase according to specific activity of initial enzyme batch.

STORAGE CONDITIONS :Store **anti-Taq Pol** DNA Polymerase at -20°C for long term storage(for glycerol buffer)Store **anti-Taq Pol** DNA Polymerase at +4°C (for glycerol free buffer)**SHIPPING CONDITIONS:**

Should be shipped at ambient temperature