

Data sheet

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MONOCLONAL ANTI-TAQ DNA POLYMERASE ANTIBODIES**RESEARCH USE ONLY****Mouse monoclonal antibodies****Clone: AH02****SOURCE:****Mouse monoclonal antibodies**

| Cat. No. | Pack | Conc. |
|-----------------|---------------|--------------------|
| D-A0201 | 0.1mg | 2-10* mg/ml |
| D-A0202 | 1.0 mg | 2-10* mg/ml |

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**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.**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 AH02)** are highly specific to Polymerization region of Taq, truncated Taq (KlenTaq); Taq- based mutants or Tth polymerases (to the different epitope than Mabs Clone **AH03, cat.No. Dia-A0301/302** and **AH016, cat. No. Dia-A0101/102**), 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.**PURITY:**

>97-98% according gel electrophoresis

APPLICATIONS:

- Hot-Start mode PCR amplification

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

Should be shipped at ambient temperature.