

Taq Monoclonal Antibody | anti-Taq antibody

Anti-Taq Monoclonal Antibody (clone 8C1)

CATALOG #
AAA62037

PRODUCT SYNONYMS

Taq; Monoclonal Antibody; Anti-Taq Monoclonal Antibody (clone 8C1); Anti-Taq Monoclonal Antibody; anti-Taq antibody

PRODUCT SPECIFICATIONS

Clonality	Monoclonal
Clone Number	8C1
Purity/Purification	> 95% by SDS-PAGE
Form/Format	10 mM Tris-HCl (pH 7.0), 50 mM KCl, 0.1 mM EDTA, 50% Glycerol
Concentration	100ug / 1mg (4mg/ml) (varies by lot)
Reaction Buffer	The anti-Taq monoclonal antibody reaction buffer is the same buffer used for the thermostable DNA polymerase.
Associated Activities	No conversion to the covalently closed circular DNA to the nicked or linear form was observed after incubation of 1 ug of pUC19 with antibodies in final concentration of 2.4 ug/ul in 20 ul of reaction mixture containing 25 mM Tris-HCl (pH 7.9), 100 mM NaCl, 10 mM MgCl ₂ after 16 hours at 37°C.
Note	For each Taq DNA polymerase or Taq from different batch, the antibody titration test must be performed to find the best ratio of antibody to Taq DNA polymerase. Too much antibody added to Taq DNA polymerase could kill the PCR reaction
Protocol	1. Before making any dilution of anti-Taq antibody and Taq polymerase, add 1 ug anti-Taq monoclonal antibody to 2 ug Taq DNA polymerase (~20 Units). 2. Mix gently and incubate at RT for about 10-20 minutes or store at 4°C. 3. Set up the PCR reaction by following the protocol of a regular thermal cycling condition used for the Taq DNA polymerase.
Preparation and Storage	For long term storage, store at -20°C, stable up to 1 year. For immediate use, keep at 4°C, stable for up to one month.

ADDITIONAL INFORMATION

Related Product Information for anti-Taq antibody	Anti-Taq monoclonal antibodies were derived from a hybridoma (fusion of mouse myeloma cell and the cells after mouse immunization with Taq DNA Polymerase). Anti-Taq monoclonal antibody inhibits polymerase activity before the onset of thermal cycling, preventing nonspecific amplification and primer-dimer formation. When the temperature is raised, the antibody is quickly inactivated and PCR proceeds. Anti-Taq monoclonal antibody is effective with a variety of commercially available Taq DNA polymerases (native or recombinant). The use of hot start anti-Taq monoclonal antibody significantly improves the specificity of PCR amplification what is especially important for PCR-based tests.
Product Categories/Family for anti-Taq antibody	Taq DNA Polymerases

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.