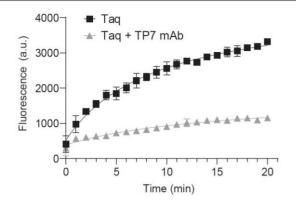
Taq Polymerase Recombinant Monoclonal Antibody [TP7]



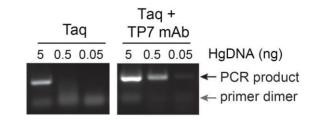
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Mouse Recom	binant M	onoclonal
Purified		
Catalog No.	A700-2	278 Uniprot ID P19821
Lot No.	1	
APPLICATIONS		HotStart PCR
AMOUNT		100 µl
CONCENTRATION		1000 µg/ml
STORAGE/SHELF LIFE		2 - 8°C / 1 year from date of receipt
PHYSICAL STATE		Liquid
BUFFER		Phosphate Buffered Saline (PBS) pH 8.2 with 0.09% Sodium Azide, BSA-Free
ISOTYPE		IgG2a
CLONE #		TP7
ORIGIN		USA
PRODUCTION		Recombinant antibody was purified from cell culture supernatant.
PROCEDURES		Immunogen was Taq polymerase.
APPLICATIONS		Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.
		HotStart PCR 1 ug of mAb per 5U of Taq
ADDITIONAL IN	NFO	https://www.fortislife.com/p/A700-278
		Use the link above to view SDS, a current list of citations, and other product specific information.

This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc. Michael Spencer, PhD Date: June 30, 2023

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Anti-Taq [TP7] inhibits Taq polymerization activity. Antibody: Mouse anti-Taq Polymerase Recombinant Monoclonal Antibody [TP7] (A700-278 lot 1). Taq DNA polymerase activity was measured at 30°C over a 20minute timecourse using a fluorescent assay for DNA primer extension on a ssDNA template. Addition of 1 µg of antibody to 5 units of wild-type Taq DNA polymerase suppresses its basal polymerization rate and prevents offtarget DNA amplification prior to thermocycling.



Anti-Tag [TP7] decreases primer dimer formation and increases PCR sensitivity. Antibody: Mouse anti-Tag Polymerase Recombinant Monoclonal Antibody [TP7] (A700-278 lot 1). Amplification of a 306 basepair region of the human Numb gene was performed with forward and reverse primers that are prone to low temperature annealing due to complementarity at their 3' ends (Kubu. Biotechniques, 2008), At ambient temperatures, Tag DNA polymerase will extend the annealed primer dimers and create a low molecular weight product that prevents proper amplification of the target sequence. At low template abundance (<5 ng of human genomic DNA [hqDNA]), wild-type Tag is unable to amplify the target sequence due to formation of primer dimers. Addition of the anti-Tag [TP7] monoclonal antibody (A700-278) decreases primer dimer extension at ambient temperatures and permits detection of the target sequence at template concentrations 100-fold lower than when Tag is used

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