ADTECH

Anti-Taq Antibody

ADTech Co., LTD
에이디텍 주식회사

www.adtchip.com

ANTI-TAQ ANTIBODY

Anti-Taq DNA Polymerase
Antibody for Hotstart PCR

Anti-Taq

- Inevitable to gene amplification in molecular diagnosis and shows better performance than other products.
  - Less consumption
  - Stronger band
  - Faster signal expression
  - larger signal amplification
  - Higher sensitivity

Anti-Taq Antibody

Anti-Taq Antibody is an anti Taq antibody for Hot Start PCR. Inhibition of polymerase activity by binding to Taq DNA polymerase prevents mispriming or nonspecific amplification by primer dimer before starting the PCR cycle. Anti-Taq antibodies are denatured at the initial DNA denaturation stage of the PCR reaction and thus can be used under conventional PCR conditions.

PURPOSE

DNA Amplification by Hot Start Polymerase Chain Reaction (PCR) Method

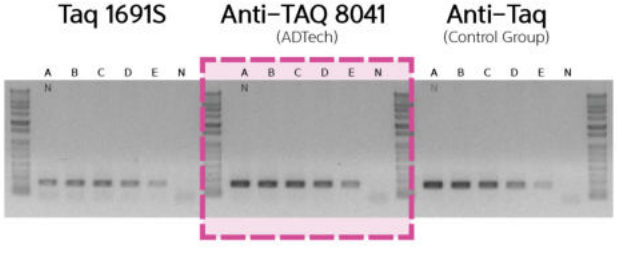
HOW TO USE

1) Mix the same amount of Taq DNA Polymerase and Taq Antibody and leave at 20 ~ 25 ℃ for about 10 minutes (Mix stock solution).
2) Perform PCR reaction according to the usage of each enzyme product.

SPECIFICATION

1) 0.19 ㎍/Taq 2 units with 30 cycles
2) DNase & RNase free
3) Stored at 2 – 8℃ for 1 months / at –20℃ for 1 year

Comparative Experiment

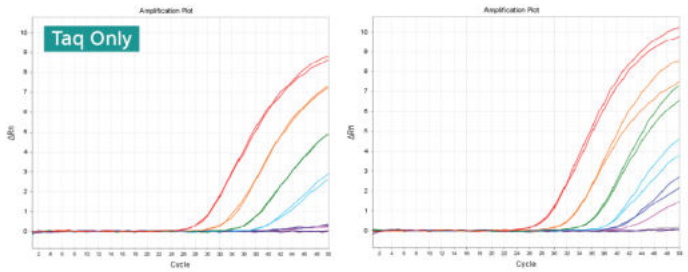


※ Each Taq polymerase reaction concentration

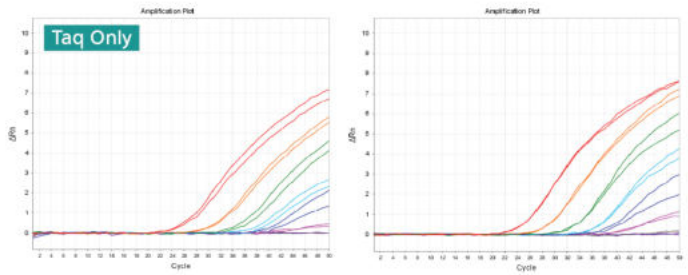
A	B	C	D	E	N
2.5 unit/ul	1.25 unit/ul	0.625 unit/ul	0.3125 unit/ul	0.15625 unit/ul	No enzyme

- This experiment is to check the band strength after PCR by processing Taq per unit concentration.
- Anti-Taq concentration is treated as fixed as control group.
- The band strength at the Taq 0.15625 unit/ul concentration is stronger than the control conditions, which proves the improvement of PCR efficiency by using ADTech's anti-Taq.
- Less volume of Taq is required when using ADTech's Anti-Taq than other anti-Taq.

EGFR Exon20 T790M (2369C>T)Mutant



EGFR Exon21 L858R (2573T>G) Mutant



EGFR Somatic Mutation Detection

Multiplex PCR (T790M / L858R)

1) The signal comes out faster for the graph starts faster to climb on X axis with hot Taq than Taq only.

2) The signal amplification is larger for the graph value of same color is higher in Y-axis with hot Taq than Taq only.

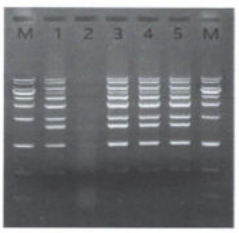
3) The sensitivity is more stronger for the value of purple graph with hot Taq is higher than Taq only.

This means low concentration of DNA is amplified more effectively than Taq only.

→ If you use ADTech's anti-Taq polymerase, then surely you can have much more improved sensitivity to your molecular diagnostic products.

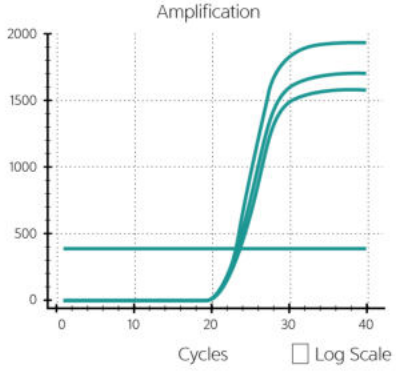
Dnase & Rnase contamination Test

DNA Ladder Degradation test by Taq antibody



Lane 1 : Control DNA Ladder (Bioneer)
Lane 2 : DNase I treat
Lane 3 : 0.5 mg/ml
Lane 4 : 0.25 mg/ml
Lane 5 : 0125 mg/ml
M : 1 kb DNA marker (Enzynomics)

Mouse total RNA Degradation test by Taq antibody



1 : Mouse Liver totla RNA control (500ng)
2 : Taq Anti-body 2 mg/ml
3 : Taq Anti-body 1 mg/ml
4 : Taq Anti-body 0.5 mg/ml

Well	Fluor	Target	Content	Cq
A01	SYBR		Neg Ctrl	23.52
C01	SYBR	0.5mg/ml	Unkn	24.01
D01	SYBR	0.5mg/ml	Unkn	23.55
E01	SYBR	0.5mg/ml	Unkn	23.09

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