

Product Datasheet

Taq-Polymerase RecAb (TP7) (orb2568780)

Description	Taq-Polymerase RecAb (TP7) is a recombinant mouse antibody (mIgG2a, κ) that binds to Taq polymerase and inhibits the polymerase activity at room temperature. The antibody is inactivated and the enzyme released upon temperature increase ("hot start antibody") during normal PCR cycling conditions, allowing reactions to be set up at room temperature. The target Taq polymerase (Uniprot: P19821) is produced by the thermophilic eubacterium <i>Thermus aquaticus</i> and is a popular thermostable DNA polymerase used for PCR [1][2][3]. The original TP7 antibody was prepared by Scalice et al. (1994) [4] through mouse immunization with recombinant Taq expressed in <i>E. coli</i> . The recombinant antibody is produced under serum-free (animal component-free) conditions in CHO cells system and purified through one-step purification with Protein-A affinity chromatography. We recommended to use TP7 antibody at a $\geq$ 1:1 molar ratio over Taq polymerase.
Species/Host	Mouse
Reactivity	Bacteria
Conjugation	Unconjugated
Tested Applications	PCR
Immunogen	recombinant TaqPol expressed in <i>E. coli</i>
Target	Taq-Polymerase
Preservatives	Clear Liquid, PBS, pH 7.4, 0.2 μ m sterile filtered
Form/Appearance	Clear Liquid, PBS, pH 7.4, 0.2 μ m sterile filtered
Concentration	$\geq$ 0.5 mg/ mL
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only

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Isotype	IgG2a κ
Clonality	Monoclonal
Clone Number	TP7
Antibody Type	Recombinant Antibody
Purity	$\geq 90\%$ (CGE, reducing conditions). $\leq 10\%$ aggregates (analytical SEC)
Uniprot ID	P19821
Expiration Date	12 months from date of receipt.

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