# P Antibody, FITC conjugated

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| **Product Code** | CSB-PA324598LC01HDO |
| **Storage** | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| **Uniprot No.** | P17100 |
| **Immunogen** | Recombinant Hepatitis B virus genotype A2 subtype adw2 Protein P protein (349-692AA) |
| **Raised In** | Rabbit |
| **Species Reactivity** | Hepatitis B virus genotype A2 subtype adw2 |
| **Tested Applications** | ELISA |
| **Relevance** | Multifunctional enzyme that converts the viral RNA genome into dsDNA in viral cytoplasmic capsids. This enzyme displays a DNA polymerase activity that can copy either DNA or RNA templates, and a ribonuclease H (RNase H) activity that cleaves the RNA strand of RNA-DNA heteroduplexes in a partially processive 3\'- to 5\'-endonucleasic mode. Neo-synthesized pregenomic RNA (pgRNA) are encapsidated together with the P protein, and reverse-transcribed inside the nucleocapsid. Initiation of reverse-transcription occurs first by binding the epsilon loop on the pgRNA genome, and is initiated by protein priming, thereby the 5\'-end of (-)DNA is covalently linked to P protein. Partial (+)DNA is synthesized from the (-)DNA template and generates the relaxed circular DNA (RC-DNA) genome. After budding and infection, the RC-DNA migrates in the nucleus, and is converted into a plasmid-like covalently closed circular DNA (cccDNA). The activity of P protein does not seem to be necessary for cccDNA generation, and is presumably released from (+)DNA by host nuclear DNA repair machinery. |
| **Form** | Liquid |
| **Conjugate** | FITC |
| **Storage Buffer** | Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, PH 7.4 |
| **Purification Method** | >95%, Protein G purified |
| **Isotype** | IgG |
| **Clonality** | Polyclonal |
| **Alias** | Protein P [Includes: DNA-directed DNA polymerase (EC 2.7.7.7); RNA-directed DNA polymerase (EC 2.7.7.49); Ribonuclease H (EC 3.1.26.4)], P |
| **Species** | Hepatitis B virus genotype A2 subtype adw2 (isolate Germany/991/1990) (HBV-A) |
| **Research Area** | Others |
| **Target Names** | P |