

## Anti-RPA70 RPA1 Antibody Picoband® (monoclonal, 11H4) Fluoro550 Conjugated

Catalog Number: M01317-2-Fluoro550

### About RPA1

Replication protein A 70 kDa DNA-binding subunit is a protein that in humans is encoded by the RPA1 gene. This gene is mapped to chromosome 17p13.3. Replication protein A (RPA) is a heterotrimeric single-strand DNA (ssDNA)-binding protein essential for DNA replication, repair, and recombination. It is composed of 70-kD (RPA1), 32-kD (RPA2), and 14-kD (RPA3) subunits. The RPA1 subunit is responsible for high-affinity ssDNA binding. The RPA complex was originally isolated as a factor essential for in vitro replication of the papovavirus SV40. It had been found that recombinant human RPA1, purified from bacteria, exhibited ssDNA-binding activity comparable to that of the complete RPA complex. RPA1 could substitute for the complete complex in stimulating the activity of DNA polymerase alpha-primase, but it could not substitute for the complete complex in SV40 DNA replication in vitro, suggesting an important functional role for the other subunits.

### Overview

Product Name	Anti-RPA70 RPA1 Antibody Picoband® (monoclonal, 11H4) Fluoro550 Conjugated
Reactive Species	Human, Monkey, Mouse
Application	Recommended applications are based on the parent unconjugated antibody (Flow Cytometry, IF, IHC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Monoclonal 11H4
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Mouse
Uniprot ID	P27694

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human RPA70, different from the related mouse sequence by three amino acids.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG2b
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.

Conjugate	Fluoro550 Excitation Wavelength: 562 nm Emission Wavelength: 576 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

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