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# Product no AS07 214 RFA | Baker's yeast replication factor A

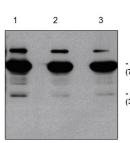
### **Product information**

Immunogen	RPA from <i>Saccharomyces cerevisiae</i> consisting of three subunits <u>RFA1</u> (70 kDa), <u>RFA2</u> (30 kDa) and RFA3 (14 kDa); overexpressed in <i>E.coli</i> and purified by chromatography; no affinity tags were added to any of three subunits	
Host	Rabbit	
Clonality	Polyclonal	
Purity	Serum	
Format	Lyophilized	
Quantity	50 μl	
Reconstitution	For reconstitution add 50 µl of sterile water	
Storage	Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.	

## **Application information**

Recommended dilution ChIP, 1: 20 000 (WB)   Expected   apparent MW 70 + 30 + 14 kDa   Confirmed reactivity Saccharomyces cerevisiae   Predicted reactivity Saccharomyces cerevisiae   Not reactive in No confirmed exceptions from predicted reactivity are currently known   Additional information Antibody was also successfully used in ChIP application Holstein et al. (2014).   Load of 1 ng of the protein will allow to visualize two subunits of RPA, while load of 5 ng will allow to visualize all three subunits in Western blot technique.   Selected references Kotenko and Makovets (2024). The functional significance of the RPA- and PCNA-dependent recruitment of Pi11 to DNA. EMBO Rep. 2024 Mar 13. doi: 10.1038/s44319-024.00114-9.   Jog et al. (2024).RPA interacts with Rad52 to promote meiotic crossover and noncrossover recombination. Nucleic Acids Res. 2024 Feb 10:gkae083. doi: 10.1093/nar/gkae083. Shi et al. (2023). A R-loop sensing pathway mediates the relocation of transcribed genes to nuclear pore complexes.STAR Protoc. 2023 Sep 20;4(4):102577. doi: 10.1016/j.xpro.2023.102577. Scherzer et al (2022). Recruitment of Scc2/4 to double-strand breaks depends on ?H2A and DNA end resection. Life Sci Alliance. 2022 Jap 27;5(5):e202101244. doi: 10.2608/sla.202101244. PMID: 35086935; PMCID: PMC8807874. Minchell et al. (2020). Cohesin Causes Replicative DNA Damage by Trapping DNA Topological Stress. Mol Cell . 2020 Mar 29;S1097-2765(20)30161-1. doi: 10.1016/j.molcel.2020.03.013. He et al (2019). KEOPS complex promotes homologous recombination via DNA resection. Nucleic Acids Res. 2019 Mar 29;S1097-2765(20)30161-1. doi: 10.1016/j.molcel.2020.03	••	
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	Application example	

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TCA precipitated protein extracts from a wild type yeast strain (S. cerevisiae) were separated on 10% gel and transferred to a PVDF membrane. Antibody was used in different dilutions: 1: 5000 (1); 1: 10 000 (2); 1: 20 000 (3);

Besides the bands for RFA1 and RFA2 an unspecific band was detected at ~150 kDa.

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