

Datasheet for 600-401-447**RFA2 phospho S122 Antibody****Overview**

Description:	Anti-RFA2 pS122 (RABBIT) Antibody - 600-401-447
Item No.:	600-401-447
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Yeast
Host Species:	Rabbit

Product Details

Background:	RFA2 binds to single-stranded sequences participating in DNA replication in addition to those mediating transcriptional repression (URS1) and activation (CAR1). It stimulates the activity of a cognate strand exchange protein (SEP1). It cooperates with T-AG and DNA topoisomerase I to unwind template DNA containing the simian virus 40 origin of DNA replication.
Synonyms:	rabbit anti-RFA2 pS122 antibody, RFA-2, RFA 2, Replication factor A protein 2, RF-A protein 2, Replication protein A 36 kDa subunit, DNA-binding protein BUF1, BUF-1, YNL312W, N0368
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	RFA2
Reactivity:	Yeast
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near aa 110-135 (of 273) of yeast DNA Replication Factor A (RFA2). The RFA complex consists of a heterotrimer of RFA1, RFA2 and RFA3, 69, 36 and 13 kDa chains respectively. Yeast RFA2 is phosphorylated at the G ₁ /S transition and is dephosphorylated at mitosis.
Purity/Specificity:	This affinity purified antibody is directed against yeast RFA2. The product was affinity purified from monospecific antiserum by immunoaffinity purification. Antiserum was first purified against the phosphorylated form of the immunizing peptide. The resultant affinity purified antibody was then cross-adsorbed against the non-phosphorylated form of the immunizing peptide. This phospho specific polyclonal antibody is specific for phosphorylated pS122 of yeast RFA2. Reactivity with non-phosphorylated yeast RFA2 is minimal by ELISA.
Relevant Links:	• UniProtKB - P26754 • NCBI - 132475 • GeneID - 855404

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity-purified antibody was tested for use in western blotting against RFA2 containing cell lysates and by ELISA against the immunizing peptide. Reactivity in other immunoassays is unknown.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:8,000 - 1:20,000
IP:	1:100
WB:	1:500 - 1:1000

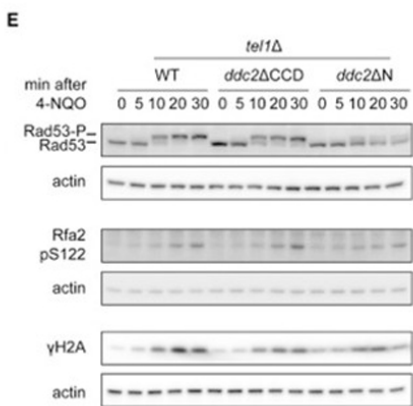
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.54 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

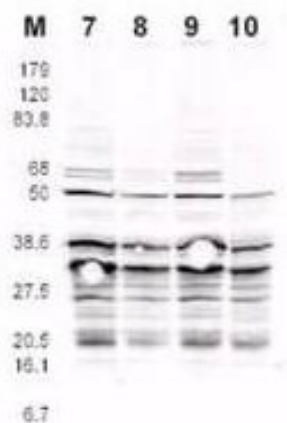
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

(E) Isogenic strains GA-8163, 9485, and 9417 (see Table S1) were synchronized in the G1 phase of the cell cycle (by α -factor) and released for indicated times into 2 μ g/mL 4-NQO. Lysates were probed with anti-Rad53 antibody, anti-phospho-S122-Rfa2 antibody (p/n 600-401-447), and anti-phospho-S129-H2A antibody. Fig 4. PMID: 29033322



Western Blot

This product was assayed by western blotting against RFA2 containing cell lysates. Affinity purified rabbit anti RFA2 pS122 specific Lot 13230 at 1.0 ug/ml for 1 hr at RT followed by IRDye 800 Sh anti Rabbit IgG (lot 13218) 1:5000 1 hr RT.

References

- Deshpande I et al. Structural Basis of Mec1-Ddc2-RPA Assembly and Activation on Single-Stranded DNA at Sites of Damage. *Mol Cell*. (2017)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.