# Replication protein A 14 kDa subunit Polyclonal Antibody

Catalog No: #42602

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

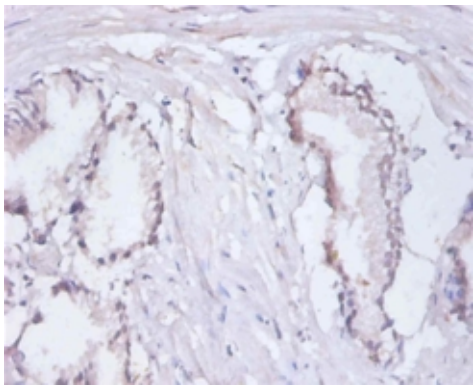
## Description

| | |
|---|---|
| Product Name | Replication protein A 14 kDa subunit Polyclonal Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | Caprylic Acid Ammonium Sulfate Precipitation purified |
| Applications | IHC |
| Species Reactivity | Hu |
| Specificity | The antibody detects endogenous level of total Replication protein A 14 kDa subunit polyclonal antibody. |
| Immunogen Type | protein |
| Immunogen Description | Recombinant human Replication protein A 14 kDa subunit protein |
| Target Name | Replication protein A 14 kDa subunit |
| Other Names | Replication factor A protein 3.RPA3, REPA3, RPA14 |
| Accession No. | Swiss-Prot#: P35244 |
| Uniprot | P35244 |
| GeneID | 6119; |
| Formulation | Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4 |
| Storage | Store at -20°C |

## Application Details

Immunohistochemistry: 1:20 - 1:200

## Images



Immunohistochemical analysis of paraffin-embeded human prostate using #42602 at dilution of 1:100.

## Background

Required for DNA recombination, repair and replication. The activity of RP-A is mediated by single-stranded DNA binding and protein interactions. Ref.7 Ref.9Functions as component of the alternative replication protein A complex (aRPA). aRPA binds single-stranded DNA and probably plays a role in DNA repair; it does not support chromosomal DNA replication and cell cycle progression through S-phase. In vitro, aRPA cannot promote

efficient priming by DNA polymerase alpha but supports DNA polymerase delta synthesis in the presence of PCNA and replication factor C (RFC), the dual incision/excision reaction of nucleotide excision repair and RAD51-dependent strand exchange.

## References

[1]Cloning, overexpression, and genomic mapping of the 14-kDa subunit of human replication protein A.Umbricht C.B., Kelly T.J.J. Biol. Chem. 268:6131-6138(1993) [2] The DNA sequence of human chromosome 7.Hillier L.W., Fulton R.S., Fulton L.A., Graves T.

Note: This product is for in vitro research use only