

## RPA70 Rabbit mAb

Catalog No: #49832

Package Size: #49832-1 50ul #49832-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

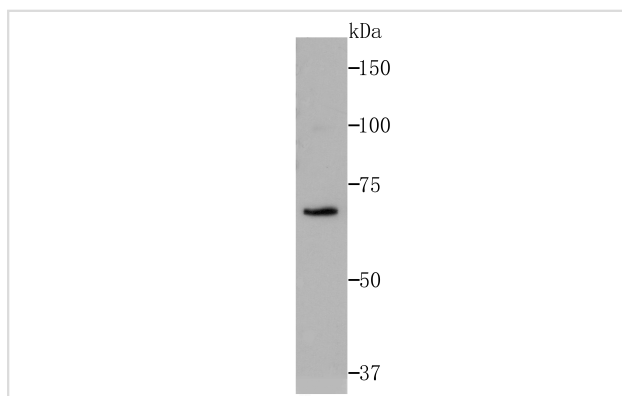
## Description

Product Name	RPA70 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JB75-32
Purification	ProA affinity purified
Applications	WB,ICC,IF,FC
Species Reactivity	Hu
Other Names	Dmrpa1 antibody Drosophila Replication Protein A antibody DRPA antibody HSSB antibody Human single stranded DNA binding protein antibody MST075 antibody MSTP075 antibody p70 antibody REPA1 antibody Replication factor A antibody Replication factor A protein 1 antibody Replication protein A 70 kDa DNA-binding subunit antibody Replication protein A 70kDa DNA binding subunit antibody Replication protein A1 70kDa antibody Replication protein A1 antibody RF A antibody RF-A protein 1 antibody RFA antibody RFA1_HUMAN antibody RP A antibody RP-A p70 antibody RPA 70 antibody RPA antibody rpa1 antibody Single stranded binding protein 70 antibody Single-stranded DNA-binding protein antibody
Accession No.	Swiss-Prot#:P27694
Uniprot	P27694
GeneID	6117;
Calculated MW	68 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

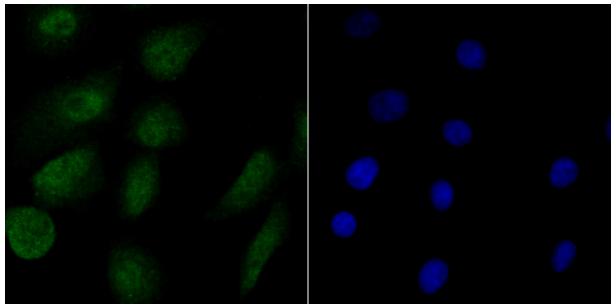
## Application Details

WB: 1:500 ICC: 1:50-1:100FC: 1:50-1:100

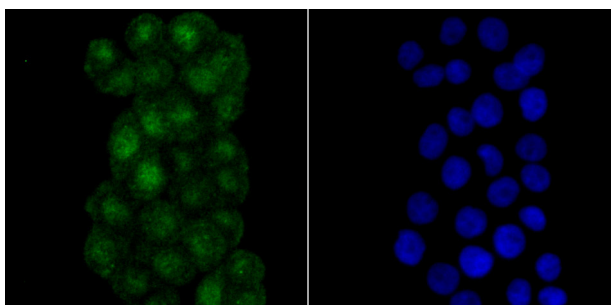
## Images



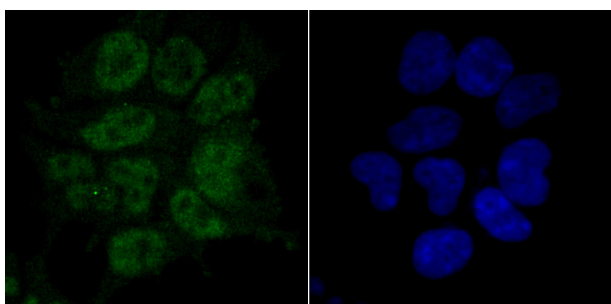
Western blot analysis of RPA70 on Siha cell lysates using anti-RPA70 antibody at 1/500 dilution.



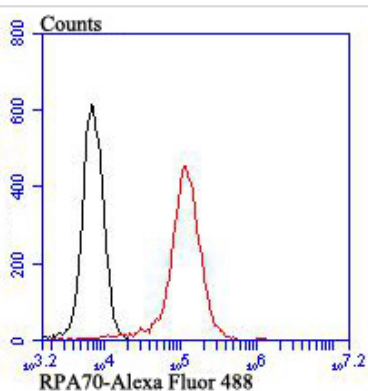
ICC staining RPA70 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining RPA70 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining RPA70 in 293T cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of 293T cells with RPA70 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

## Background

The single-stranded-DNA-binding proteins (SSBs) are essential for DNA function in prokaryotic and eukaryotic cells, mitochondria, phages and viruses. Replication protein A (RPA), a highly conserved eukaryotic protein, is a heterotrimeric SSB. RPA plays an important role in DNA replication, recombination and repair. The binding of human RPA (hRPA) to DNA involves molecular polarity in which initial hRPA binding occurs on the 5' side of an ssDNA substrate and then extends in the 3' direction to create a stably bound hRPA. RPA is a major damage-recognition protein involved in the early stages of nucleotide excision repair. It can also play a role in telomere maintenance. The RPA 70 kDa subunit binds to ssDNA and mediates interactions with many cellular and viral proteins. The DNA binding domain lies in the middle of RPA 70 kDa subunit and comprises two structurally homologous subdomains oriented in tandem. RPA contains a conserved four cysteine-type zinc-finger motif, which mediates the transition of

RPA-ssDNA interaction to a stable RPA-ssDNA complex in a redox-dependent manner.

## References

---

---

Note: This product is for in vitro research use only