

Datasheet for ABIN6940535  
**anti-RPA2 antibody**



[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	RPA2
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This RPA2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant human full-length Replication protein A2 (RPA2) protein
Clone:	RPA2-2106
Isotype:	IgG2b kappa
Specificity:	Recognizes a protein of 34 kDa, identified as a subunit of Replication Protein A (RPA) (also known as human single-stranded DNA binding protein, or HSSB). RPA from human cells is a stable heterotrimer of 70 kDa, 32-34 kDa, and 11-14 kDa subunits (RPA70, RPA32, and RPA14 respectively). It is involved in DNA replication, repair, and recombination. RPA is required for the SV40 large tumor antigen-catalyzed unwinding of SV40 DNA and stimulates DNA polymerase (pol) alpha and delta. RPA34 is phosphorylated at the G1/S boundary of the cell cycle or upon exposure of cells to DNA damage-inducing agents including ionizing and UV radiation.
Purification:	Purified by Protein A/G

## Target Details

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Target:	RPA2
Alternative Name:	RPA2 ( <a href="#">RPA2 Products</a> )
Molecular Weight:	32-34kDa
Gene ID:	6118
UniProt:	<a href="#">P15927</a>
Pathways:	<a href="#">Telomere Maintenance</a> , <a href="#">DNA Damage Repair</a> , <a href="#">Mitotic G1-G1/S Phases</a> , <a href="#">DNA Replication</a> , <a href="#">Synthesis of DNA</a>

## Application Details

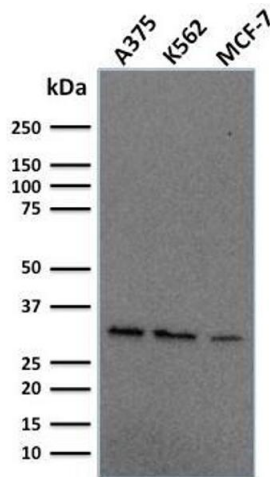
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Application Notes:	Positive Control: MCF-7, HeLa or HepG2 cells. Human tonsil (IHC). Known Application: Western Blot (1-2 µg/mL), Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

## Handling

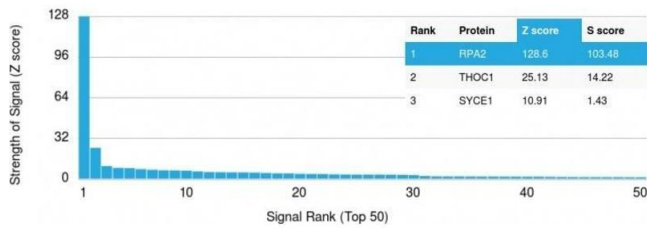
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Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months



### Western Blotting

**Image 1.** Western Blot Analysis of Human A375, K562, MCF-7 cell lysate using Replication Protein A2 Mouse Monoclonal Antibody (RPA2/2106).



### Protein Array

**Image 2.** Analysis of Protein Array containing more than 19,000 full-length human proteins using Replication Protein A2 Mouse Monoclonal Antibody (RPA2/2106). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAB) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a MAB to its intended target. A MAB is considered to specific to its intended target, if the MAB has an S-score of at least 2.5. For example, if a MAB binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAB to protein X is equal to 29.