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## 36-3115: Anti-Replication Protein A2 (RPA2) Monoclonal Antibody(Clone: RPA2/2106)

Clone Name: Monoclonal RPA2/2106

Application: WB
Reactivity: Human
Gene: RPA2
Gene ID: 6118
Uniprot ID: P15927

p32; p34; REPA2; Replication protein A 32kDa subunit; Replication protein A 34kDa subunit;

Alternative Name: Replication protein A2; RF-A protein 2; Rf-A2; RF-A; RP-A p32; RP-A p34; RP21C; RPA32; RPA34;

RpLP1; RpP2

**Isotype:** Mouse IgG2b, kappa

Immunogen Information: Recombinant human full-length Replication protein A2 (RPA2) protein

## **Description**

Recognizes a protein of 34kDa, 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 70kDa, 32-34kDa, and 11-14kDa 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.

## **Product Info**

**Amount:** 20 μg / 100 μg

Content: 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS

with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

**Storage condition :** 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.

## **Application Note**

Western Blot (1-2ug/ml);

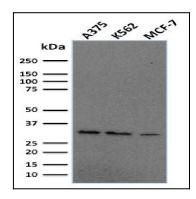


Fig. 1: Western Blot Analysis of Human A375, K562, MCF-7 cell lysate using Replication Protein A2 Mouse Monoclonal Antibody (RPA2/2106).



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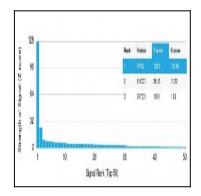


Fig. 2: Analysis of Protein Array containing more than 19,000 full-length human proteins using Replication Protein A2 Mouse Monoclonal Antibody (RPA2/2106). Z-and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-lgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) 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.