



## PRODUCT DATA SHEET

**Product:** Anti-RPA/p70 mAb, clone  $\alpha$ SSB70C

**Cat. No.:** MC-306 (100  $\mu$ g)

**Synonyms:**

Human single-stranded DNA binding protein or HSSB

**Background:**

Replication Protein A (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. RPA70 is composed of three domains: an N-terminal domain that is not required for ssDNA binding or SV40 replication, a central DNA-binding domain and a C-terminal domain that is essential for subunit interactions.

**Clone Designation:**

2H10, 70C or  $\alpha$ SSB70C

**Molecular Weight of Antigen:**

70 kDa

**Epitope:**

Not determined

**Species Reactivity:**

Human. Others not tested.

**Ig Isotype:**

Mouse IgG<sub>1/k</sub>

**Immunogen:**

Purified human RPA protein.

**Positive Control:**

HeLa cells

**Cellular Localization:**

Nuclear

**Format:**

500  $\mu$ L of monoclonal antibody at 200  $\mu$ g/mL in 10 mM PBS, pH 7.4, with protein stabilizer and 0.09% sodium azide. Purified from ascites fluid by Protein G chromatography.

**Storage:**

Store at 4 °C.

**Applications and Suggested Dilutions:**

- Immunoprecipitation: (Native and denatured) Use antibody at 2  $\mu$ g/mg protein lysate. Use Protein G.
- Immunohistochemistry: **NOT SUITABLE.**
- Western blot: Use at 1 - 2  $\mu$ g/mL for 2 hrs. at RT.

The optimal dilution for a specific application should be determined by the researcher.

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.