

**RPA / p70 (Replication Protein A) Ab-2 (Clone 2H10 or 70C)****Mouse Monoclonal Antibody****Cat. #MS-692-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml)** (Purified Ab with BSA and Azide)**Cat. #MS-692-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml)** (Purified Ab without BSA and Azide)**Cat. #MS-692-PCL (0.1ml)** (Positive Control for Western Blot)**Please note this data sheet has been changed effective December 8, 2011**

**Description:** Replication Protein A (RPA) (also known as human single-stranded DNA binding protein, or HSSB) is involved in DNA replication, repair, and recombination. RPA from human cells is a stable heterotrimer of 70kDa, 32-34kDa, and 11-14kDa subunits (RPA70, RPA32, and RPA14 respectively). RPA is required for the SV40 large tumor antigen-catalyzed unwinding of SV40 DNA and stimulates DNA polymerase 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.

**Mol. Wt. of Antigen:** 70kDa**Epitope:** Not determined**Species Reactivity:** Human. Others not known.**Clone Designation:** 2H10 or 70C or αSSB70C**Ig Isotype / Light Chain:** IgG<sub>1</sub> / κ**Immunogen:** Purified human RPA protein.<sup>1</sup>**Applications and Suggested Dilutions:**

- Gel Supershift (Order Ab at 1mg/ml)
- Immunoprecipitation (Native and denatured) (Use Protein G) (Ab 2µg/mg protein lysate)
- Western Blotting (Ab 1-2µg/ml for 2hrs at RT)
- Immunohistology (Not suitable)

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

**Positive Control:** HeLa cells.**Cellular Localization:** Nuclear**Supplied As:** 200µg/ml of antibody purified from ascites fluid by Protein G chromatography. Prepared

in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml.

**Storage and Stability:**

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

**Key References:**

1. Kenny MK, *et al.* J Biol Chem, 1990, 265(13):7693-7700.
2. Niu H; *et al.* J Biol Chem, 1997, 272(19):12634-41.
3. Pan ZQ; *et al.* Proc Natl Acad Sci USA, 1995, 92:4636-40.
4. Pan ZQ; *et al.* Proc Natl Acad Sci USA, 1994, 91:8343-7.
5. Ozawa K; *et al.* Cell Structure & Function, 1993, 18:221-30.

**Limitations and Warranty:**

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

**Material Safety Data:**

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume



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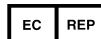
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of running water to avoid deposits forming in metal drainage pipes.

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