

## Positive Control Lysate for RPA/p70 (Replication Protein A) Ab-2

Human Cells-8 Lysate

Cat. #MS-692-PCL (250 µg in 0.1 ml) (Ready-To-Use for Western Blotting)

Please note this data sheet has been changed effective December 19, 2011

### **Specificity and Comments:**

Human cells-8 has a high level expression of the subunit of Replication Protein A (RPA) (also known as human single-stranded DNA binding protein, or HSSB). **NEOMARKERS'** Ab-2 shows a single band at 70kDa on this positive control cell lysate. 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. **NEOMARKERS'** Ab-2 blocks DNA unwinding reaction and stimulation of pol $\delta$ . 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.

### **Supplied As:**

250ug of total protein cell lysate in 0.1ml of 1X PAGE-sample buffer containing DTT.

### **Known Applications:**

- Western Blotting (Use **NEOMARKERS'** Ab-2)  
[Load 20ul of the positive control cell lysate onto one lane of mini-gel.]

### **Storage and Stability:**

Store vial below 0°C. When stored below 0°C, this lysate is stable for 12months.

### **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

### **NEOMARKERS' Other Related Products:**

ORC1 (7F6/1), ERCC1 (3H11, 8F1), XRCC1 (33-2-5), XPA (2A4), XPG (8H7), RPA ( $\alpha$ SSB34A,  $\alpha$ SSB70C), DNA Ligase I (7A12), DNA Polymerase beta (MAb), DNA Polymerase epsilon (3 x MABs), DNA-PKcs (18-2, 25-4, 42-psc), Ku (111, 162, N3H10, S5C11, N9C1, S10B1), p95<sup>vav</sup> (vav30), Xanthine Oxidase (2 x MABs), MGMT (MT3.1), Topoisomerase II alpha (MAb & PAb).

### **Material Safety Data:**

This product is not licensed or approved for administration to humans or to 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.

**For Research Use Only**

