



# RPA4 Antibody (C-term) Blocking Peptide

Synthetic peptide Catalog # BP18746b

### **Specification**

RPA4 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession <u>Q13156</u>

RPA4 Antibody (C-term) Blocking Peptide - Additional Information

**Gene ID** 29935

#### **Other Names**

Replication protein A 30 kDa subunit, RP-A p30, Replication factor A protein 4, RF-A protein 4, RPA4

#### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

## **Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

#### **Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RPA4 Antibody (C-term) Blocking Peptide - Protein Information

# Name RPA4

#### **Function**

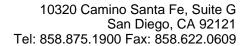
As part of the alternative replication protein A complex, aRPA, binds single-stranded DNA and probably plays a role in DNA repair. Compared to the RPA2-containing, canonical RPA complex, may not support chromosomal DNA replication and cell cycle progression through S-phase. The aRPA may not promote efficient priming by DNA polymerase alpha but could support DNA

# RPA4 Antibody (C-term) Blocking Peptide - Background

This gene encodes a single-stranded DNA-binding proteinthat is the 30-kDa subunit of the replication protein A complex.Replication protein A is an essential factor for DNA double-strandbreak repair and cell cycle checkpoint activation. The encodedprotein localizes to DNA repair foci and may be involved in thecellular DNA damage response. This protein may also play a role ininhibiting viral replication.

# RPA4 Antibody (C-term) Blocking Peptide - References

Kemp, M.G., et al. J. Biol. Chem. 285(7):4788-4797(2010)Guey, L.T., et al. Eur. Urol. 57(2):283-292(2010)Haring, S.J., et al. Nucleic Acids Res. 38(3):846-858(2010)Shen, M., et al. Environ. Mol. Mutagen. 50(4):285-290(2009)Mason, A.C., et al. J. Biol. Chem. 284(8):5324-5331(2009)





polymerase delta synthesis in the presence of PCNA and replication factor C (RFC), the dual incision/excision reaction of nucleotide excision repair and RAD51-dependent strand exchange.

## **Cellular Location**

Nucleus. Note=Localizes to DNA repair foci after DNA damage

## **Tissue Location**

Preferentially expressed in placental and colon mucosa. Widely expressed at intermediate or lower levels

# RPA4 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

• Blocking Peptides