

**RPA4 Antibody (C-term) Blocking Peptide**

Synthetic peptide

Catalog # BP18746b

**Specification**

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

Primary Accession

[O13156](#)**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 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](#)

#### **RPA4 Antibody (C-term) Blocking Peptide - Images**

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

This gene encodes a single-stranded DNA-binding protein that is the 30-kDa subunit of the replication protein A complex. Replication protein A is an essential factor for DNA double-strand break repair and cell cycle checkpoint activation. The encoded protein localizes to DNA repair foci and may be involved in the cellular DNA damage response. This protein may also play a role in inhibiting 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)