

BLM Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP6782b**Specification**

BLM Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P54132](#)**BLM Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 641**Other Names**

Bloom syndrome protein, DNA helicase, RecQ-like type 2, RecQ2, RecQ protein-like 3, BLM, RECQ2, RECQL3

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6782b](/products/AP6782b) was selected from the C-term region of human BLM. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

BLM Antibody (C-term) Blocking Peptide - Protein Information**Name** BLM**Synonyms** RECQ2, RECQL3**Function**

ATP-dependent DNA helicase that unwinds single- and double- stranded DNA in a 3'-5' direction (PubMed: [9388193](http://www.uniprot.org/citations/9388193), PubMed: [24816114](http://www.uniprot.org/citations/24816114), PubMed: [25901030](http://www.uniprot.org/citations/25901030)). Participates in DNA replication and repair (PubMed: [12019152](http://www.uniprot.org/citations/12019152), PubMed: [21325134](http://www.uniprot.org/citations/21325134), PubMed: [23509288](http://www.uniprot.org/citations/23509288), PubMed: [34606619](http://www.uniprot.org/citations/34606619)). Involved in

5'-end resection of DNA during double-strand break (DSB) repair: unwinds DNA and recruits DNA2 which mediates the cleavage of 5'-ssDNA (PubMed:21325134). Negatively regulates sister chromatid exchange (SCE) (PubMed:25901030). Stimulates DNA 4-way junction branch migration and DNA Holliday junction dissolution (PubMed:25901030). Binds single-stranded DNA (ssDNA), forked duplex DNA and DNA Holliday junction (PubMed:20639533, PubMed:24257077, PubMed:25901030). Recruited by the KHDC3L-OOEP scaffold to DNA replication forks where it is retained by TRIM25 ubiquitination, it thereby promotes the restart of stalled replication forks (By similarity).

Cellular Location

Nucleus. Note=Together with SPIDR, is redistributed in discrete nuclear DNA damage-induced foci following hydroxyurea (HU) or camptothecin (CPT) treatment. Accumulated at sites of DNA damage in a RMI complex- and SPIDR-dependent manner

BLM Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

BLM Antibody (C-term) Blocking Peptide - Images

BLM Antibody (C-term) Blocking Peptide - Background

BLM participates in DNA replication and repair and Exhibits a magnesium-dependent ATP-dependent DNA-helicase activity that unwinds single- and double-stranded DNA in a 3'-5' direction.

BLM Antibody (C-term) Blocking Peptide - References

Guey, L.T., et.al., Eur. Urol. (2009) Schuetz, J.M., et.al., BMC Med. Genet. 10, 117 (2009)