

BLM Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP4860b**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

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, PubMed:24816114, PubMed:25901030). Participates in DNA replication and repair (PubMed:12019152, PubMed:21325134, PubMed:23509288, PubMed: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).

[25901030](http://www.uniprot.org/citations/25901030)). Binds single-stranded DNA (ssDNA), forked duplex DNA and DNA Holliday junction (PubMed: [20639533](http://www.uniprot.org/citations/20639533), PubMed: [24257077](http://www.uniprot.org/citations/24257077), PubMed: [25901030](http://www.uniprot.org/citations/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 is related to the RecQ subset of DExH box-containing DNA helicases and has both DNA-stimulated ATPase and ATP-dependent DNA helicase activities.

BLM Antibody (C-term) Blocking Peptide - References

Davila, S., et al. Genes Immun. 11(3):232-238(2010) Frank, B., et al. Carcinogenesis 31(3):442-445(2010) Ouyang, K.J., et al. PLoS Biol. 7 (12), E1000252 (2009)