

BLM Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP4860b

Specification

BLM Antibody (C-term) - Product Information

Application	WB, FC,E
Primary Accession	P54132
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	159000
Antigen Region	1054-1082

BLM Antibody (C-term) - 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

This BLM antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1054-1082 amino acids from the C-terminal region of human BLM.

Dilution

WB~~1:1000
FC~~1:10~50

Format

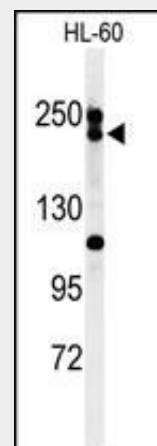
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

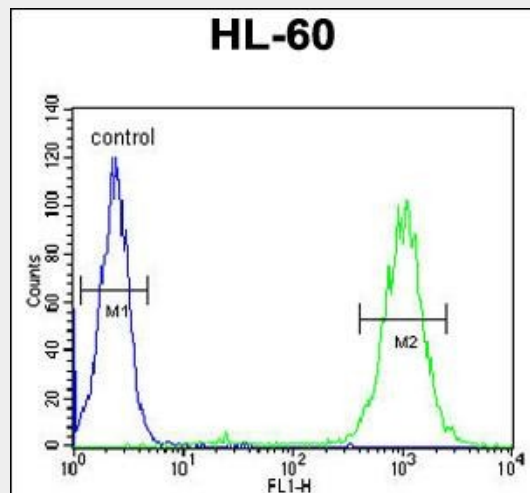
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

BLM Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.



Western blot analysis of BLM Antibody (C-term) (Cat. #AP4860b) in HL-60 cell line lysates (35ug/lane). BLM (arrow) was detected using the purified Pab.



BLM Antibody (C-term) (Cat. #AP4860b) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

BLM Antibody (C-term) - Background

BLM is related to the RecQ subset of DEXH

BLM Antibody (C-term) - 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). 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

box-containing DNA helicases and has both DNA-stimulated ATPase and ATP-dependent DNA helicase activities.

BLM Antibody (C-term) - 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)

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) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)