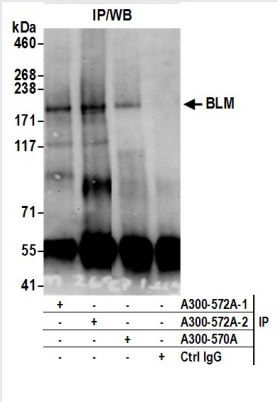
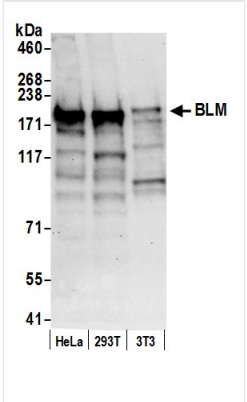
BLM Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BLM, Polyclonal Antibody
Full Product Name	Rabbit anti-BLM Antibody, Affinity Purified
Product Gene Name	anti-BLM antibody
Product Synonym Names	recQ helicase homolog; mBLM; Bloom syndrome, RecQ helicase-like; Bloom syndrome homolog; Bloom syndrome protein homolog; Bloom syndrome protein homolog; Bloom syndrome, RecQ like helicase
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid. Whole IgG. Tris-buffered Saline containing 0.1% BSA and 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	200ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	158,366 Da
Chromosome Location	Chromosome: 7; NC_000073.6 (80454993..80535119, complement). Location: 7 D3; 7 45.65 cM
3D Structure	ModBase 3D Structure for O88700
Immunogen	Between 1366 and C-terminus
Conjugation	Unconjugated
Product Categories/Family for anti-BLM antibody	Primary Antibodies
Applications Tested/Suitable for anti-BLM antibody	Western Blot (WB), Immunoprecipitation (IP)
Application Notes for anti-BLM antibody	WB: 1:2000-1:10,000 IP: 6ug/mg lysate
Related Product Information for anti-BLM antibody	Bloom syndrome protein (BLM) is a RecQ DNA-helicase that plays a role in DNA replication and repair. Mutations and inactivation of BLM result in human syndromes characterized by dwarfism, infertility, erythema, learning disabilities, immune deficiency and predisposition to cancer. BLM has been shown to associate with the BRCA1-associated genome surveillance complex (BASC) which contains BRCA1, MSH2, MSH6, MLH1, ATM, PMS2 and the RAD50-MRE11-NBS1 protein complex.
Other Notes	Small volumes of anti-BLM antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BLM purchase	MBS3901131 is an antibody targeting BLM. Also known as Rabbit anti-BLM Antibody, Affinity Purified. Reactive in Human, Mouse. Host: Rabbit.



Immunoprecipitation (IP) of anti-BLM antibody
Detection of mouse BLM by western blot of immunoprecipitates. Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from NIH 3T3 cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-BLM antibody MBS3901131 (lot MBS3901131-2) used for IP at 6 ug per reaction. BLM was also immunoprecipitated by a previous lot of this antibody (lot MBS3901131-1) and rabbit anti-BLM antibody MBS3901130 For blotting immunoprecipitated BLM, MBS3901131 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



Western Blot (WB) of anti-BLM antibody
Detection of human and mouse BLM by western blot. Samples: Whole cell lysate (50 ug) from HeLa, HEK293T, and mouse NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-BLM antibody MBS3901131 (lot MBS3901131-2) used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BLM. It may not necessarily be applicable to this product.

NCBI GI #	226693393
NCBI GeneID	12144
NCBI Accession #	NP_031576.4
UniProt Primary Accession #	O88700
UniProt Secondary Accession #	O88198
UniProt Related Accession #	O88700
GenBank Nucleotide #	NM_007550.4
NCBI Official Full Name	Bloom syndrome protein homolog isoform 1
NCBI Official Synonym Full Names	Bloom syndrome, RecQ helicase-like
NCBI Official Symbol	Blm
UniProt Protein Name	Bloom syndrome protein homolog
UniProt Synonym Protein Names	RecQ helicase homolog
Protein Family	Bloom syndrome protein
UniProt Gene Name	Blm
UniProt Synonym Gene Names	mBLM
NCBI Protein Information	Bloom syndrome protein homolog; mBLM; recQ helicase homolog; Bloom syndrome homolog

UniProt Comments for BLM	BLM: a magnesium-dependent ATP-dependent DNA-helicase that unwinds single- and double-stranded DNA in a 3'-5' direction. A member of the RecQ helicase family that is required for genome stability. Participates in DNA replication, recombination and repair. Part of the BRCA1-associated genome surveillance complex (BASC), which contains BRCA1, MSH2, MSH6, MLH1, ATM, BLM, PMS2 and the RAD50-MRE11-NBS1 protein complex which is a dynamic process changing throughout the cell cycle and within subnuclear domains. Interacts with ubiquitinated FANCD2. Protein type: DNA repair, damage; DNA replication; EC 3.6.4.12; Helicase Chromosomal Location of Human Ortholog: 7 D2|7 45.65 cM Cellular Component: chromosome, telomeric region; cytoplasm; cytosol; intracellular; lateral element; male germ cell nucleus; nuclear chromosome; nuclear matrix; nucleolus; nucleus; PML body; pronucleus; replication fork Molecular Function: ATP binding; ATP-dependent 3'-5' DNA helicase activity; ATP-dependent DNA helicase activity; ATP-dependent helicase activity; ATPase activity; bubble DNA binding; catalytic activity; DNA binding; DNA helicase activity; DNA-dependent ATPase activity; forked DNA-dependent helicase activity; four-way junction DNA binding; four-way junction helicase activity; G-quadruplex DNA binding; helicase activity; hydrolase activity; hydrolase activity, acting on acid anhydrides, in phosphorus-containing anhydrides; metal ion binding; nucleic acid binding; nucleotide binding; p53 binding; protein binding; protein homodimerization activity; single-stranded DNA binding; telomeric D-loop binding; Y-form DNA binding; zinc ion binding Biological Process: alpha-beta T cell differentiation; cellular metabolic process; cellular response to DNA damage stimulus; cellular response to ionizing radiation; chromosome organization and biogenesis; DNA double-strand break processing; DNA duplex unwinding; DNA recombination; DNA repair; DNA replication; G-quadruplex DNA unwinding; mitotic cell cycle G2/M transition DNA damage checkpoint; negative regulation of cell division; negative regulation of DNA recombination; negative regulation of mitotic recombination; positive regulation of alpha-beta T cell proliferation; positive regulation of double-strand break repair via homologous recombination; positive regulation of transcription, DNA-templated; protein homooligomerization; protein oligomerization; regulation of binding; regulation of cyclin-dependent protein kinase activity; regulation of DNA-dependent DNA replication; replication fork processing; replication-born double-strand break repair via sister chromatid exchange; response to X-ray; telomere maintenance; telomeric D-loop disassembly
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