

Rabbit Blooms Syndrome Protein Blm Polyclonal Antibody | anti-BLM antibody

Blooms Syndrome Protein Blm Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328900	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Horse(100%), Rabbit(88%), Dog(100%)	ELISA

PRODUCT SYNONYMS

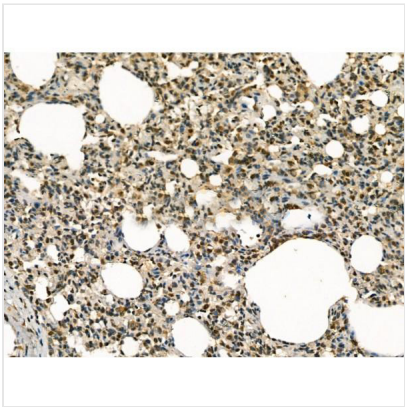
Blooms Syndrome Protein Blm; Polyclonal Antibody; Blooms Syndrome Protein Blm Antibody; Blm; BLM_HUMAN; Bloom syndrome; Bloom syndrome protein; Bloom syndrome RecQ helicase like; BS; DNA helicase; DNA helicase RecQ like type 2; MGC126616; MGC131618; MGC131620; RECQ 2; RECQ like; RecQ like type 2; RecQ protein like 3; RecQ protein-like 3; RecQ-like type 2; RecQ2; RECQL 2; RECQL 3; RECQL2; RECQL3; type 2; anti-BLM antibody

PRODUCT SPECIFICATIONS

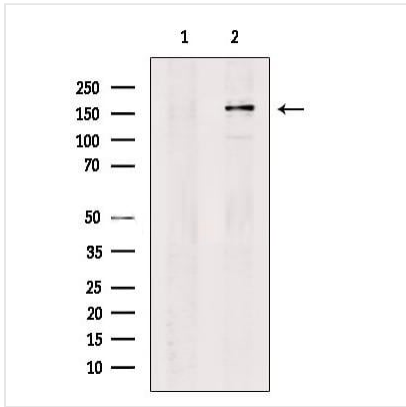
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Horse(100%), Rabbit(88%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Blooms Syndrome Protein Blm Antibody detects endogenous levels of total Blooms Syndrome Protein Blm.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	1417
Applicable Applications for anti-BLM antibody	ELISA
Immunogen	A synthesized peptide derived from human Blooms Syndrome Protein Blm, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemisry)
AAA328900 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohiostchemistry)
AAA328900 at 1/100 staining Rat lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from Rat brain, using Blooms Syndrome Protein Blm Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-BLM antibody	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). Post Translational Modifications: Phosphorylated in response to DNA damage. Phosphorylation requires the FANCA-FANCC-FANCE-FANCF-FANCG protein complex, as well as the presence of RMI1. Subcellular 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. Subunit Structure: Monomer (PubMed:28228481). Homodimer (via N-terminus) (PubMed:28228481). Homotetramer (via N-terminus); dimer of dimers (PubMed:28228481). Homoheptamer (via N-terminus) (PubMed:28228481). Self-association negatively regulates DNA unwinding amplitude and rate. Oligomeric complexes dissociate into monomer in presence of ATP (PubMed:28228481). 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. This association could be a dynamic process changing throughout the cell cycle and within subnuclear domains. Interacts with ubiquitinated FANCD2. Interacts with RMI complex. Interacts directly with RMI1 (via N-terminal region) component of RMI complex. Interacts with SUPV3L1. Found in a complex, at least composed of BLM, RAD51 and SPIDR; the complex formation is mediated by SPIDR. Interacts with TOP3A (via N-terminal region). Interacts with SPIDR (via C-terminal region); the interaction is direct and required to target BLM to sites of DNA damage. Similarity: The N-terminal region mediates dimerization and homooligomerization (PubMed:28228481). Both the helicase ATP-binding domain and the helicase C-terminal domain form intramolecular interactions with the HRDC domain in a ATP-dependent manner (PubMed:25901030). The HRDC domain is required for single-stranded DNA (ssDNA) and DNA Holliday junction binding (PubMed:20639533).Belongs to the helicase family. RecQ subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557365
NCBI GeneID	641
NCBI Accession #	NP_000048.1
NCBI GenBank Nucleotide #	NP_000048.1
UniProt Accession #	P54132
Molecular Weight	Observed Molecular Weight: (Observed)159kD. Predicted Molecular Weight: (Calculated)159kDa.
NCBI Official Full Name	Bloom syndrome protein isoform 1
NCBI Official Synonym Full Names	BLM RecQ like helicase
NCBI Official Symbol	BLM
NCBI Official Synonym Symbols	BS; RECQ2; RECQL2; RECQL3; MGRISCE1
NCBI Protein Information	Bloom syndrome protein
UniProt Protein Name	Bloom syndrome protein
UniProt Gene Name	BLM
UniProt Synonym Gene Names	RECQ2; RECQL3; RecQ2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/blooms-syndrome-protein-blm-antibody-elisa/328900>