

Product Datasheet

Blooms Syndrome Protein Blm Antibody - BSA Free NB100-214

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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Publications: 8

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NB100-214**Blooms Syndrome Protein Blm Antibody - BSA Free**

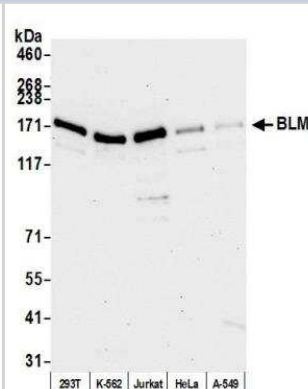
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description	
Description	Novus Biologicals Rabbit Blooms Syndrome Protein Blm Antibody - BSA Free (NB100-214) is a polyclonal antibody validated for use in WB and IP. Anti-Blooms Syndrome Protein Blm Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	641
Gene Symbol	BLM
Species	Human, Mouse
Immunogen	The immunogen recognized by this antibody maps to a region between residue 1425 and the C-terminus (residue 1477) of human Bloom Syndrome using the numbering given in entry NP_000048.1 (GeneID 641).

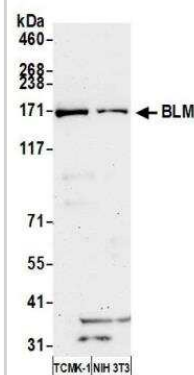
Product Application Details	
Applications	Western Blot, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunoprecipitation 2 to 10 ug/mg of lysate
Application Notes	Optimal dilutions should be determined by the end user.

Images

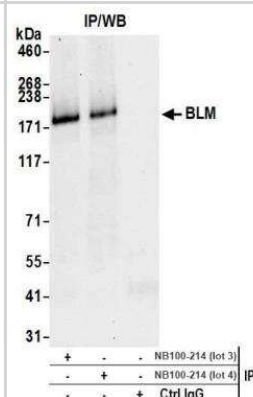
Western Blot: Blooms Syndrome Protein Blm Antibody [NB100-214] - Samples: Whole cell lysate (15 ug) from HEK293T, K-562, Jurkat, HeLa, and A-549 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-BLM antibody NB100-214 (lot 4) used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



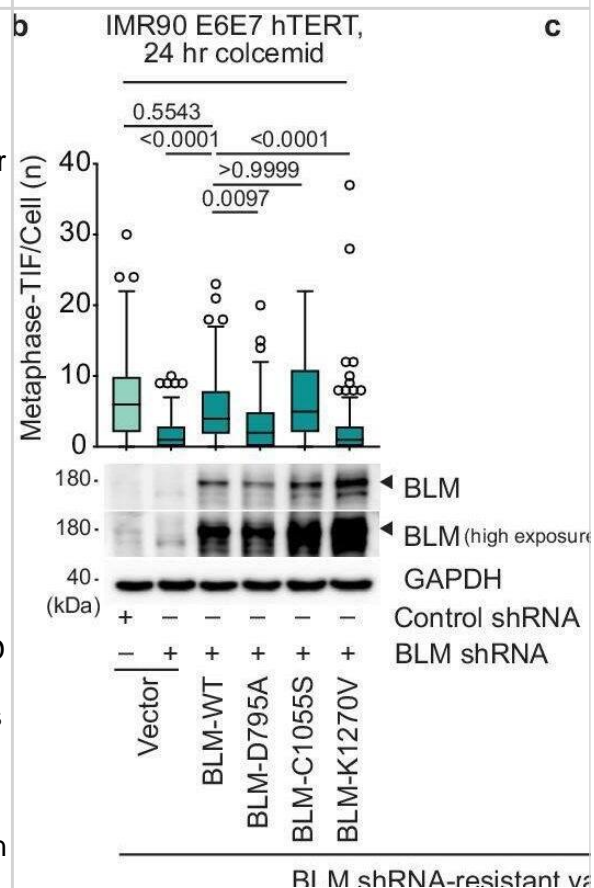
Western Blot: Blooms Syndrome Protein BLM Antibody [NB100-214] -
Samples: Whole cell lysate (50 ug) from TCMK-1 and BIH 3T3 cells prepared using NETN lysis buffer. **Antibody:** Affinity purified rabbit anti-BLM antibody NB100-214 (lot 4) used for WB at 0.1 ug/ml. **Detection:** Chemiluminescence with an exposure time of 75 seconds.



Immunoprecipitation: Blooms Syndrome Protein BLM Antibody [NB100-214] -
Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HEK293T cells prepared using NETN lysis buffer. **Antibodies:** Affinity purified rabbit anti-BLM antibody (NB100-214, lot 4) used for IP at 6 ug per reaction. BLM was also immunoprecipitated by a previous lot of this antibody (lot 3). For blotting immunoprecipitated BLM, NB100-214 was used at 0.1 ug/ml. **Detection:** Chemiluminescence with an exposure time of 10 seconds.



TRF2 phosphorylation promotes BTR-dependent MAD telomere deprotection. a BLM domain structure and the mutant alleles used in this study. The compromised function of the mutant alleles is indicated. b, c Above, Metaphase-telomere deprotection induced foci (TIF) following 24 h of 100 ng mL⁻¹ colcemid in IMR90 E6E7 hTERT expressing Control or BLM shRNA and shRNA-resistant BLM alleles (all data points from n = 3 biological replicates of 30 metaphases per replicate, compiled into a Tukey Box Plot, Kruskal-Wallis followed by Dunn's multiple comparisons test). Below: representative immunoblots of whole cell extracts derived from the untreated cell cultures used in this experiment. d TOP3A domain structure and the mutant allele used in this study. e Above, Metaphase-TIF following 24 h of 100 ng mL⁻¹ colcemid in IMR90 E6E7 hTERT fibroblasts expressing Control or TOP3A shRNA and vector or shRNA-resistant TOP3A alleles (all data points from n = 3 biological replicates of 30 metaphases per replicate compiled into a Tukey Box Plot, Kruskal-Wallis followed by Dunn's multiple comparisons test). Below, representative immunoblots of whole cell extracts derived from the untreated cell cultures used in this experiment. f Above, Metaphase-TIF following 24 h of 100 ng mL⁻¹ colcemid in IMR90 E6E7 hTERT expressing Control, BLM or TRF2 shRNA, and vector or TRF2-2D (S62D and S65D) (all data points from n = 3 biological replicates of 30 metaphases per replicate compiled into a Tukey Box Plot, Kruskal-Wallis followed by Dunn's multiple comparisons test). Below, representative immunoblots of whole cell extracts derived from the untreated cell cultures used in this experiment. Source data are provided as a Source Data file. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/40097392>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Root H, Larsen A, Komosa M et al. FANCD2 limits BLM-dependent telomere instability in the alternative lengthening of telomeres pathway Hum. Mol. Genet. 2016-07-17 [PMID: 27427384]

Petrillo C, Barroca V, Ribeiro J et al. shani mutation in mouse affects splicing of Spata22 and leads to impaired meiotic recombination Chromosoma 2020-05-11 [PMID: 32388826]

Yoshimura Y Increased error-free DNA repair gene expression through reprogramming in human iPS cells Regenerative Therapy 2019-06-28 [PMID: 31304203] (WB, Human)

Nicholls TJ, Nadalutti CA, Motori E et al. Topoisomerase 3a Is Required for Decatenation and Segregation of Human mtDNA. Mol. Cell 2017-12-14 [PMID: 29290614] (Human)

Srivastava V, Modi P, Tripathi V et al. BLM helicase stimulates the ATPase and chromatin-remodeling activities of RAD54. J Cell Sci 2009-09-01 [PMID: 19671661] (Human)

Murfuni I, Nicolai S, Baldari S et al. The WRN and MUS81 proteins limit cell death and genome instability following oncogene activation Oncogene 2012-03-12 [PMID: 22410776]

Nair RR, Emmons MF, Cress AE et al. HYD1-induced increase in reactive oxygen species leads to autophagy necrotic cell death in multiple myeloma cells. Mol Cancer Ther;8(8):2441-2451. 2009-01-01 [PMID: 19671765]

Tripathi et al. BLM helicase dependent independent roles of 53BP1 during replication st. J Cell Biol 178:9. 2007-01-01 [PMID: 17591918]





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Products Related to NB100-214

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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