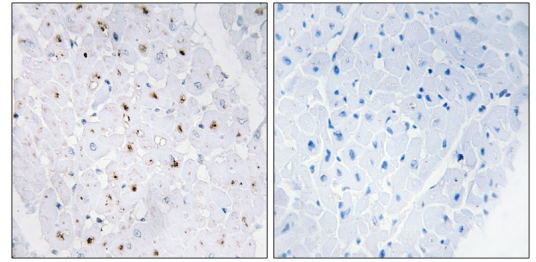


AP55713PU-N**Polyclonal Antibody to BLM pThr99 - Aff - Purified**

Alternate names:	Bloom syndrome protein, DNA helicase, RECQ2, RECQL3, RecQ protein-like 3, RecQ-like type 2
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	Participates in DNA replication and repair. Exhibits a magnesium-dependent ATP-dependent DNA-helicase activity that unwinds single- and double-stranded DNA in a 3'-5' direction. 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. Negatively regulates sister chromatid exchange (SCE).
Uniprot ID:	P54132
NCBI:	9606
GeneID:	641
Host:	Rabbit
Immunogen:	Peptide sequence around phosphorylation site of threonine 99 (Q-E-T(p)-Q-R) derived from Human Bloom Syndrome (KLH-conjugated)
Format:	State: Liquid Ig fraction Purification: Affinity chromatography using epitope-specific peptide Buffer System: Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Applications:	Western blot: 1:500~1:1000. Immunohistochemistry on paraffin sections: 1:50~1:100. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	159 kDa
Specificity:	The antibody detects endogenous levels of Bloom Syndrome Protein only when phosphorylated at threonine 99.
Species Reactivity:	Tested: Human
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Ellis NA, Groden J, Ye TZ, Straughen J, Lennon DJ, Ciocci S, et al. The Bloom's syndrome gene product is homologous to RecQ helicases. Cell. 1995 Nov 17;83(4):655-66. PubMed PMID: 7585968. 2. Karow JK, Chakraverty RK, Hickson ID. The Bloom's syndrome gene product is a 3'-5' DNA helicase. J Biol Chem. 1997 Dec 5;272(49):30611-4. PubMed PMID: 9388193. 3. Pichierri P, Franchitto A, Rosselli F. BLM and the FANC proteins collaborate in a common pathway in response to stalled replication forks. EMBO J. 2004 Aug 4;23(15):3154-63. Epub 2004 Jul 15. PubMed PMID: 15257300.

Pictures:

Immunohistochemical analysis of paraffin-embedded human heart tissue, using Bloom Syndrome Protein (Phospho-Thr99) antibody AP55713PU-N (left) or the same antibody preincubated with blocking peptide (right).



Western blot analysis of extracts from HepG2 cells using Bloom Syndrome Protein (Phospho-Thr99) Antibody AP55713PU-N. The lane on the right is treated with the antigen-specific peptide.

