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| <b>Product name:</b>     | BLM (phospho Thr99) Rabbit Polyclonal Antibody                                                                                                     |
| <b>Cat number:</b>       | ABN04323                                                                                                                                           |
| <b>Conjugate:</b>        | Unconjugated                                                                                                                                       |
| <b>Size:</b>             | 100µL                                                                                                                                              |
| <b>Clone:</b>            | Polyclonal                                                                                                                                         |
| <b>Concentration:</b>    | 1mg/ml                                                                                                                                             |
| <b>Host:</b>             | Rabbit                                                                                                                                             |
| <b>Isotype:</b>          | IgG                                                                                                                                                |
| <b>Immunogen:</b>        | The antiserum was produced against synthesized peptide derived from human Bloom Syndrome around the phosphorylation site of Thr99. AA range:65-114 |
| <b>Reactivity:</b>       | Human,Rat,Mouse                                                                                                                                    |
| <b>Applications:</b>     | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:10000                                                                           |
| <b>Molecular Weight:</b> | 159kDa                                                                                                                                             |
| <b>Purification:</b>     | Affinity purification                                                                                                                              |
| <b>Form:</b>             | Liquid                                                                                                                                             |
| <b>Buffer:</b>           | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.                                                                 |
| <b>Storage:</b>          | Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.                                                       |

**Background:**

The Bloom syndrome gene product is related to the RecQ subset of DExH box-containing DNA helicases and has both DNA-stimulated ATPase and ATP-dependent DNA helicase activities. Mutations causing Bloom syndrome delete or alter helicase motifs and may disable the 3'-5' helicase activity. The normal protein may act to suppress inappropriate recombination. [provided by RefSeq, Jul 2008],disease:Defects in BLM are the cause of Bloom syndrome (BLM) [MIM:210900]. BLM is an autosomal recessive disorder characterized by proportionate pre- and postnatal growth deficiency, sun-sensitive telangiectatic hypo- and hyperpigmented skin, predisposition to malignancy, and chromosomal instability.,function: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.,online information:BLM mutation db,PTM:Phosphorylated in response to DNA damage. Phosphorylation requires the FANCA-FANCC-FANCE-FANCF-FANCG protein complex, as well as the presence of RMI1.,similarity:Belongs to the helicase family. RecQ subfamily.,similarity:Contains 1 helicase ATP-binding domain.,similarity:Contains 1 helicase C-terminal domain.,similarity:Contains 1 HRDC domain.,subunit: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 component of RMI complex.,