BLM (Phospho Thr99) Rabbit pAb

CatalogNo: YP0906

Key Features

Host Species
- Rabbit

Reactivity
- Human,Rat,Mouse,

Applications
- WB,IHC,IF,ELISA

MW
- 159kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
IF 1:200-1:1000
ELISA 1:5000
Not yet tested in other applications.

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human Bloom Syndrome around the phosphorylation site of Thr99. AA range:65-114

Specificity	Phospho-BLM (T99) Polyclonal Antibody detects endogenous levels of BLM protein only when phosphorylated at T99.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):QEtQR

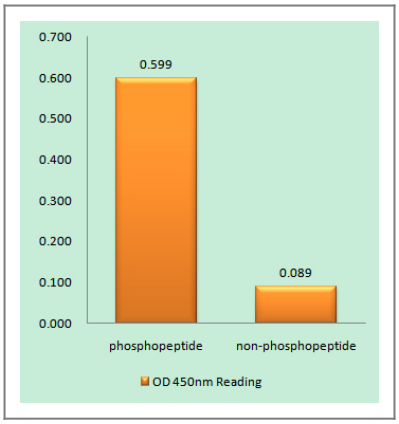
Target Information

Gene name	BLM
Protein Name	Bloom syndrome protein

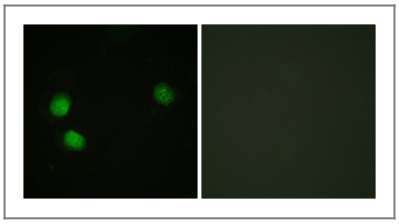
Organism	Gene ID	UniProt ID
Human	641;	P54132;
Mouse		O88700;

Cellular Localization	Nucleus . 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.
Tissue specificity	B-cell,Epithelium,Testis,
Function	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.,

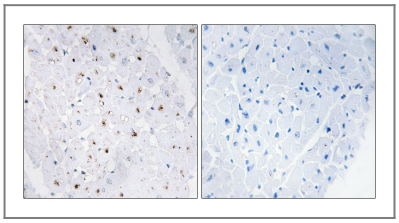
Validation Data



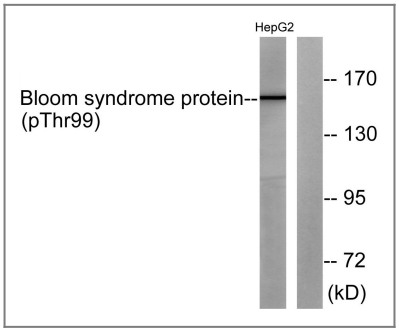
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Bloom Syndrome (Phospho-Thr99) Antibody



Immunofluorescence analysis of HeLa cells, using Bloom Syndrome (Phospho-Thr99) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human heart, using Bloom Syndrome (Phospho-Thr99) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells, using Bloom Syndrome (Phospho-Thr99) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information: **BLM (Phospho Thr99) Rabbit pAb**