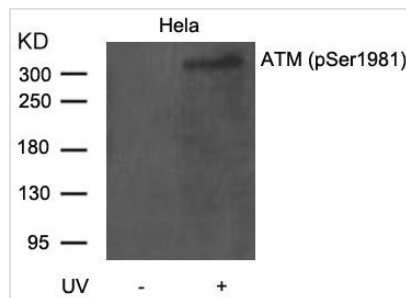


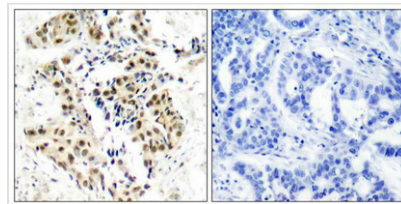


Phospho-ATM (Ser1981) Antibody

Product Code	CSB-PA188639
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q13315
Immunogen	Peptide sequence around phosphorylation site of serine 1981 (E-G-S(p)-Q-S) derived from Human ATM.
Raised In	Rabbit
Species Reactivity	Human, Mouse
Specificity	The antibody detects endogenous level of ATM only when phosphorylated at serine 1981.
Tested Applications	ELISA, WB, IHC; WB: 1:500-1:1000, IHC: 1:50-1:100
Relevance	ATM encoded by this gene belongs to the PI3/PI4-kinase family. This protein is an important cell cycle checkpoint kinase that phosphorylates; thus, it functions as a regulator of a wide variety of downstream proteins, including tumor suppressor proteins p53 and BRCA1, checkpoint kinase CHK2, checkpoint proteins RAD17 and RAD9, and DNA repair protein NBS1. This protein and the closely related kinase ATR are thought to be master controllers of cell cycle checkpoint signaling pathways that are required for cell response to DNA damage and for genome stability. Mutations in this gene are associated with ataxia telangiectasia, an autosomal recessive disorder. Two transcript variants encoding different isoforms have been found for this gene. Gupta A. et al. (2005) Mol Cell Biol. 25(12): 5292-5305. Bernstein JL. et al. (2002) Breast Cancer Res. 4(6): 249-252. Silverman J. et al. (2004) Genes Dev. 18(17): 2108-2119. Nakada D. et al. (2003) Nucleic Acids Res. 31(6): 1715-1724.
Form	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using
Clonality	Polyclonal
Alias	Ataxia telangiectasia mutated homolog; Ataxia telangiectasia mutated; kinase ATM
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	ATM
Image	



Western blot analysis of extracts from HeLa cells untreated or treated with UV using ATM(Phospho-Ser1981) Antibody



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ATM(Phospho-Ser1981) Antibody(left) or the same antibody preincubated with blocking peptide(right).

Product Modify

Phospho-Ser1981