ELK Biotechnology

Atm (phospho Ser1981) rabbit pAb

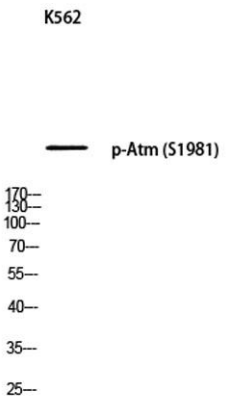
Cat No.:ES8438

For research use only

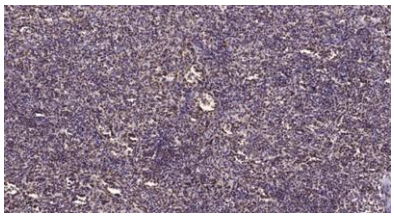
Overview

Product Name	Atm (phospho Ser1981) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human; Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	Synthesized phospho-peptide around the phosphorylation site of human Atm (phospho Ser1981)
Specificity	Phospho-Atm (S1981) Polyclonal Antibody detects endogenous levels of Phospho Atm around the phosphorylation site of S1981(human), S1896(mouse), S1927(rat) protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Serine-protein kinase ATM
Gene Name	ATM
Cellular localization	Nucleus . Cytoplasmic vesicle . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Primarily nuclear. Found also in endocytic vesicles in association with beta-adaptin. .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	350kD
Human Gene ID	472
Human Swiss-Prot Number	Q13315
Alternative Names	ATM; Serine-protein kinase ATM; Ataxia telangiectasia mutated; A-T mutated
Background	The protein 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. [provided by RefSeq, Aug 2010],



Western blot analysis of K562 using p-Atm (S1981) antibody. Antibody was diluted at 1:500



Immunohistochemical analysis of paraffin-embedded human spleen. 1, Tris-EDTA,pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200(4° overnight.3,Secondary antibody was diluted at 1:200(room temperature, 45min).

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