

Atm Polyclonal Antibody

Catalog No	YP-Ab-14671
Isotype	lgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	ATM
Protein Name	Serine-protein kinase ATM
Immunogen	The antiserum was produced against synthesized peptide derived from human ATM. AA range:1950-1999
Specificity	Atm Polyclonal Antibody detects endogenous levels of Atm protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC: 1/100 - 1/300. ELISA: 1/40000 IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ATM; Serine-protein kinase ATM; Ataxia telangiectasia mutated; A-T mutated
Observed Band	350kD
Cell Pathway	Nucleus . Cytoplasmic vesicle . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Primarily nuclear. Found also in endocytic vesicles in association with beta-adaptin
Tissue Specificity	Found in pancreas, kidney, skeletal muscle, liver, lung, placenta, brain, heart, spleen, thymus, testis, ovary, small intestine, colon and leukocytes.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,disease:Defects in ATM are the cause of ataxia telangiectasia (AT) [MIM:208900]; also known as Louis-Bar syndrome, which includes four complementation groups: A, C, D and E. This rare recessive disorder is characterized by progressive cerebellar ataxia, dilation of the blood vessels in the conjunctiva and eyeballs, immunodeficiency, growth retardation and sexual immaturity. AT patients have a strong predisposition to cancer; about 30% of patients develop tumors, particularly lymphomas and leukemias. Cells from affected individuals are highly sensitive to damage by ionizing radiation and resistant to inhibition of DNA synthesis following irradiation.,disease:Defects in ATM contribute to B-cell chronic lymphocytic leukemia (BCLL). BCLL is the commonest form of leukemia in the elderly. It is characterized by the accumulation of ma

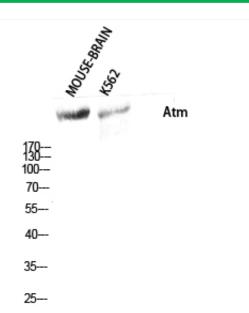


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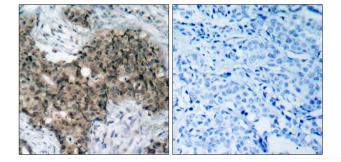
BackgroundThe protein encoded by this gene belongs to the PI3/PI4-kinase family. This
protein is an important cell cycle checkpoint kinase that phosphorylates; thus, it
functions as a regulator of a wide variety of downstream proteins, including tumor
suppressor proteins p53 and BRCA1, checkpoint kinase 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],Matters needing
attentionAvoid repeated freezing and thawing!Usage suggestionsThis product can be used in immunological reaction related experiments. For
more information, please consult technical personnel.

Products Images



Western Blot analysis of MOUSE-BRAIN K562 cells using Atm Polyclonal Antibody diluted at 1:500

Website: www.upingBio.com



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using ATM Antibody. The picture on the right is blocked with the synthesized peptide.

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