

Product datasheet for **TA306355**

ATM Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, ICC: 2.5 ug/mL, IF: 10 ug/mL
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	ATM antibody was raised against a peptide corresponding to 14 amino acids near the carboxy terminus of human ATM.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	ATM serine/threonine kinase
Database Link:	NP_000042 Entrez Gene 472 Human Q13315
Background:	DNA double strand breaks represent a major threat to an organism's genome. Eukaryotic cells have developed mechanisms that sense the presence this damage and initiate suitable responses that can include DNA repair, cell cycle delay, and programmed cell death. The ATM (mutated in Ataxia-Telangiectasia) protein kinase is activated following the formation of DNA double strand breaks, phosphorylating p53 and another kinase CHK2. This initiates a signaling cascade leading to the phosphorylation and inhibition of Cdc25, ultimately preventing cell cycle progression. In some cell types, such as the hemapoietic system, this leads to apoptosis instead of cell cycle arrest. Multiple isoforms of ATM are known to exist.
Synonyms:	AT1; ATA; ATC; ATD; ATDC; ATE; TEL1; TELO1

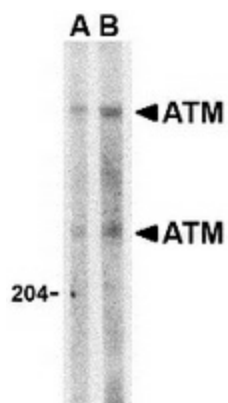


[View online »](#)

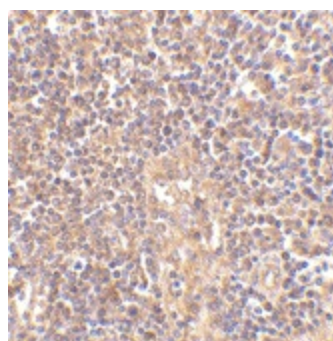
Protein Families: Druggable Genome, Protein Kinase, Transcription Factors

Protein Pathways: Apoptosis, Cell cycle, p53 signaling pathway

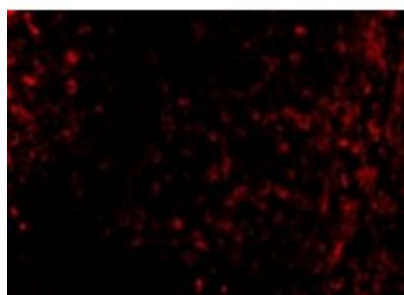
Product images:



Western blot analysis of ATM in Daudi whole cell lysate with ATM antibody at (A) 1 and (B) 2 ug/ml.



Immunohistochemistry of ATM in human lymph node tissue with ATM antibody at 2.5 ug/ml.



Immunofluorescence of ATM in Human Lymph Node cells with ATM antibody at 10 ug/mL.