

Product datasheet for **AM06035PU-N**

ATM Mouse Monoclonal Antibody [Clone ID: 3E8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3E8
Applications:	IHC, IP, WB
Recommended Dilution:	Immunohistochemistry on Paraffin Sections: 5 µg/ml. Immunoprecipitation. Western Blot.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant protein expressed in <i>E. coli</i> corresponding to amino acids 980-1512
Specificity:	This antibody detects Ataxia Telangiectasia Mutated (ATM).
Formulation:	Phosphate buffered saline, pH 7.4 State: Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein G chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody at 2-8 °C for on month or (in aliquots) at -20 °C for long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ATM serine/threonine kinase
Database Link:	Entrez Gene 472 Human Q13315



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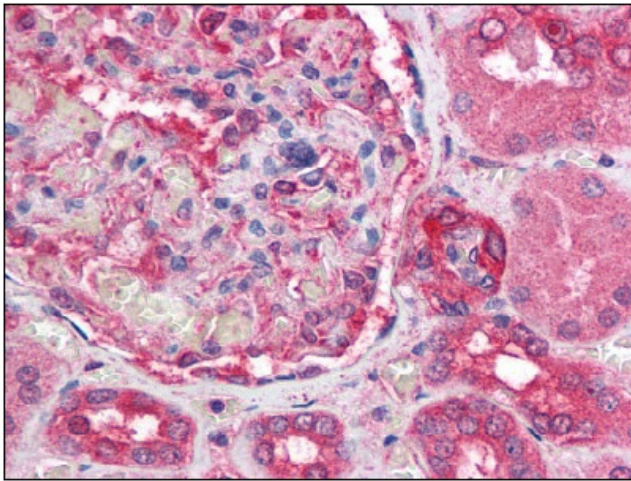
Background:

ATM-3E8 recognizes full-length ATM, a 370kDa nuclear phosphoprotein, which is involved in the autosomal recessive disease ataxia telangiectasia (AT). ATM belongs to a novel family of proteins associated with cell cycle regulation and response to DNA repair. The C-terminal region has extensive homology to the catalytic domains of phosphatidylinositol 3-kinases (PI3 kinases). Its usefulness to monitor altered ATM expression in cancer is under active investigation.

The ATM gene product is a 370 kD nuclear phosphoprotein with C-terminal homology to phosphatidylinositol 3-kinase. ATM is involved in the induction of a DNA damage control pathway. Mutations in the ATM gene cause neuronal degeneration, gonadal abnormalities, and immune deficiencies as part of the hereditary disease ataxia telangiectasia.

Synonyms:

Serine-protein kinase ATM, Ataxia telangiectasia mutated, A-T mutated, ATDC, TEL1, TELO1

Product images:

Kidney: Formalin-Fixed Paraffin Embedded (FFPE)