Data Sheet (Cat.No.TMAC-00335)

Anti-ATM Antibody (9B624)

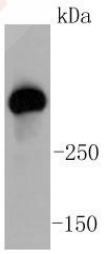
Product Details

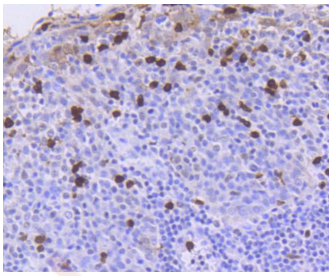
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 350 kDa.
Clone:	9B624
Purification:	ProA affinity purified

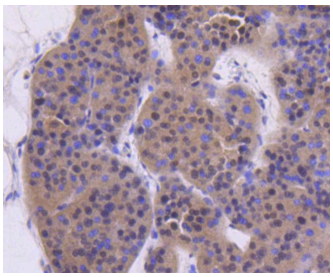
Applications

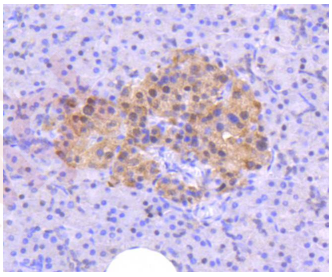
Verified Activity:

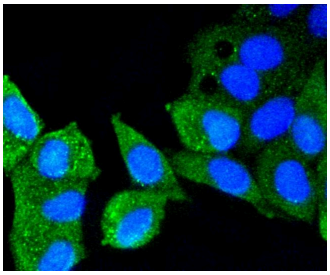
1. Western blot analysis of ATM on CRC cell lysates using anti-ATM antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-ATM antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-ATM antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-ATM antibody. Counter stained with hematoxylin.
5. ICC staining ATM in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining ATM in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining ATM in CRC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

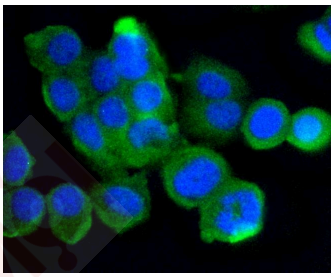


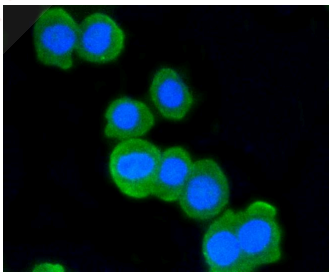












Application:	ICC/IF,IHC,WB
Recommended	WB: 1:1000-5000; IHC: 1:50-200; ICC/IF: 1:50-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q13315
Synonyms:	ATD;ATE;Telomere fusion protein;A-T mutated;AT1;ATDC;Serine/threonine-protein kinase ATM; ATM serine/threonine kinase;Serine protein kinase ATM;homolog;A-T mutated homolog;Tefu; TEL1;OTTHUMP00000232981;DKFZp781A0353;telomere maintenance 1;Ataxia telangiectasia mutated homolog;ATA;ATC;TELO1;Ataxia telangiectasia mutated;MGC74674;AT mutated

Research Background

The phosphatidylinositol kinase (PIK) family members fall into two distinct subgroups. The first subgroup contains proteins such as the PI 3- and PI 4-kinases and the second group comprises the PIK-related kinases. The PIK-related kinases include Atm, DNA-PKCS and FRAP. These proteins have in common a region of homology at their carboxy-termini that is not present in the PI 3- and PI 4-kinases. The Atm gene is mutated in the autosomal recessive disorder ataxia telangiectasia (AT) that is characterized by cerebellar degeneration (ataxia) and the appearance of dilated blood vessels (telangiec-tases) in the conjunctivae of the eyes. AT cells are hypersensitive to ionizing radiation, impaired in mediating the inhibition of DNA synthesis and display delays in p53 induction.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481