

ATM (phospho-S1987) polyclonal antibody

Catalog: BS64020

Host: Rabbit

Reactivity: Human, Mouse, Rat

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 (telangiectases) 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.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 370 kDa

Swiss-Prot:

Q13315

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

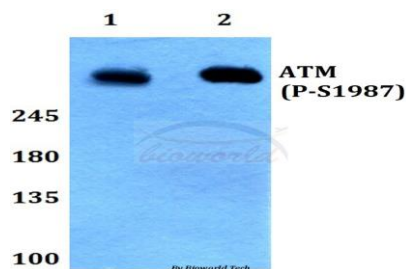
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

p-ATM (S1987) polyclonal antibody detects endogenous levels of ATM protein only when phosphorylated at ser1987.

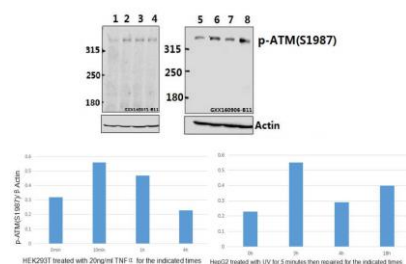
DATA:



Western blot (WB) analysis of p-ATM (S1987) polyclonal antibody at 1:500 dilution

Lane1:HEK293T whole cell lysate treated with UV(24h)

Lane2:Raw264.7 whole cell lysate treated with UV(24h)



Western blot (WB) analysis of ATM (phospho-S1987) pAb at 1:500 dilution

Lane1:HEK293T whole cell lysate(40ug)

Lane2:HEK293T treated with TNFα(20ng/ml) for 10 minutes whole cell lysate

Lane3:HEK293T treated with TNFα(20ng/ml) for 1 hour whole cell lysate

Lane4:HEK293T treated with TNFα(20ng/ml) for 4 hours whole cell lysate

Lane5:HepG2 whole cell lysate(40ug)

Lane6:HepG2 treated with UV for 5 minutes then repaired for 3 hours whole cell lysate(40ug)

Lane7:HepG2 treated with UV for 5 minutes then repaired for 4 hours whole cell lysate(40ug)

Lane8:HepG2 treated with UV for 5 minutes then repaired for 18 hours whole cell lysate(40ug)

Note:

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PRODUCT DATA SHEET

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For research use only, not for use in diagnostic procedure.

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