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 (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.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

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

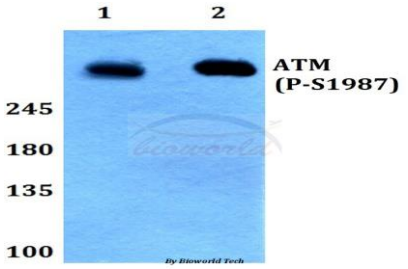
Storage&Stability:

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

Specificity:

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

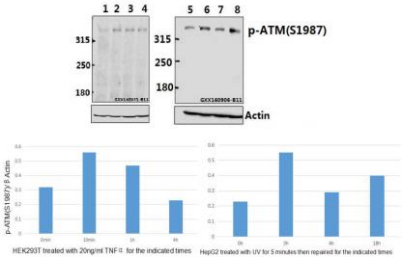
DATA:



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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