

## mTOR polyclonal antibody

Catalog: BS90889

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. DNA-PK is a heterotrimeric DNA binding enzyme that is composed of a large subunit, DNA-PKCS, and two smaller subunits collectively known as Ku. The loss of DNA-PK leads to defects in DSB repair and V(D)J recombination. FRAP can autophosphorylate on serine and bind to Rapamycin/FKBP. FRAP is also an upstream regulator of S6 kinase and has been implicated in the regulation of p27 and p21 expression.

### Product:

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

### Molecular Weight:

289 kDa

### Swiss-Prot:

P42345(Human) Q9JLN9(Mouse) P42346(Rat)

### Purification&Purity:

ProA affinity purified

### Applications:

WB:1:1,000

IHC:1:50-1:200

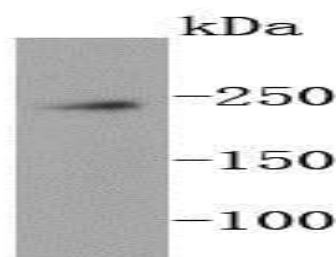
### Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

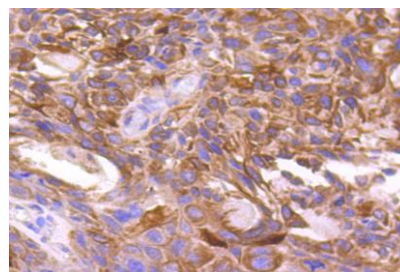
### Specificity:

mTOR polyclonal antibody detects endogenous levels of mTOR protein.

### DATA:



Western blot analysis of mTOR on mouse testis lysates using anti-mTOR antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-mTOR antibody. Counter stained with hematoxylin.

### Note:

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

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