

RPA32/RPA2 (phospho T21) polyclonal antibody

Catalog: BS94002

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

The single-stranded-DNA-binding proteins (SSBs) are essential for DNA function in prokaryotic and eukaryotic cells, mitochondria, phages and viruses. Replication protein A (RPA), a highly conserved eukaryotic protein, is a heterotrimeric SSB. RPA plays an important role in DNA replication, recombination and repair. The binding of human RPA (hRPA) to DNA involves molecular polarity in which initial hRPA binding occurs on the 5' side of a ssDNA substrate and then extends in the 3' direction to create a stably bound hRPA. RPA is a major damage-recognition protein involved in the early stages of nucleotide excision repair. It can also play a role in telomere maintenance. The C-terminus of RPA 32 can specifically interact with the DNA repair enzyme UNG2 and repair factors XPA and Rad52, each of which functions in a different repair pathway. In addition, RPA 32 binds specifically to the SH2 domain of Stat3 in vivo, and overexpression of RPA 32 corresponds to the augmented growth factor-stimulated tyrosine phosphorylation and transcription activities of Stat3.

Product:

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

Molecular Weight:

32 kDa

Swiss-Prot:

P15927(Human) Q62193(Mouse) Q63528(Rat)

Purification&Purity:

ProA affinity purified

Applications:

WB:1:1,000

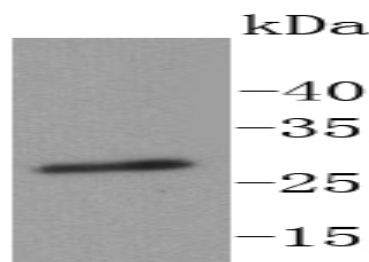
Storage&Stability:

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

Specificity:

RPA32/RPA2 (phospho T21) polyclonal antibody detects endogenous levels of RPA32/RPA2 protein only when phosphorylated at T21.

DATA:



Western blot analysis of RPA32/RPA2 (phospho T21) on HeLa cells lysates using anti-RPA32/RPA2 (phospho T21) antibody at 1/1,000 dilution.

Note:

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

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