Data Sheet (Cat.No.TMAC-03627)

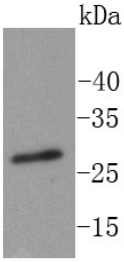
Anti-Phospho-RPA2 (Thr21) Antibody (1G657)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 32 kDa.
Clone:	1G657
Purification:	ProA affinity purified

Applications

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



Application:	IP,WB
Recommended	WB: 1:1000

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:	Synthetic phospho-peptide corresponding to residues surrounding Thr21 of human RPA32/RPA2
Antigen Species:	Human
Uniprot ID:	P15927
Synonyms:	RPA2 (p-Thr21);p-RPA2 (Thr21);RPA2 (p-T21);p-RPA2 (T21);Phospho-RPA2 (T21)

Research 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 specfically intereact 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.

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