RPA32 Antibody (YA679)

Cat. No.:	HY-P80975
Synonyms:	RPA32 Antibody (YA679) is a non-conjugated and Mouse origined monoclonal antibody about 32 kDa, targeting to RPA32. It can be used for WB, IHC-P, ICC/IF, IP assays with tag free, in the background of Human, Mouse, Rat.
Host:	Mouse
Reactivity:	Human, Mouse, Rat
Conjugation:	Non-conjugated
SwissProt ID:	P15927
Molecular Weight:	Predicted band size: 32 kDa

PROPERTIES

Formulation	Supplied in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Purity	Protein A affinity purified.
Storage & Stability	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Appearance	Liquid

Application & Dilution Ratio

Application	Dilution Ratio
WB	1:500-1:1000
IHC	1:50-1:100
IF	1:50-1:200
IP	1:20

Shipping	Shipping with blue ice.

DESCRIPTION

Background

The related gene encodes a subunit of the heterotrimeric Replication Protein A (RPA) complex, which binds to single-stranded DNA (ssDNA), forming a nucleoprotein complex that plays an important role in DNA metabolism, being involved in DNA replication, repair, recombination, telomere maintenance, and co-ordinating the cellular response to DNA damage through activation of the ataxia telangiectasia and Rad3-related protein (ATR) kinase. The RPA complex protects single-stranded DNA from nucleases, prevents formation of secondary structures that would interfere with repair, and co-ordinates the recruitment and departure of different genome maintenance factors. The heterotrimeric complex has two different modes of ssDNA binding, a low-affinity and high-affinity mode, determined by which oligonucleotide/oligosaccharide-binding (OB) domains of the complex are utilized, and differing in the length of DNA bound. The subunit contains a single OB domain that participates in high-affinity DNA binding and also contains a winged helix domain at its carboxy terminus, which interacts with many genome maintenance protein. Post-translational modifications of the RPA complex also plays a

	role in co-ordinating different damage response pathways.

Caution: Product has not been fully validated for medical applications. For research use only.

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