

RPA32/RPA2 (DGR34306) Rat mAb

db23195

Package : 10µL 20µL 50µL 100µL

Product Name : RPA32/RPA2 (DGR34306) Rat mAb**Cat.No.:** db23195**Synonyms** : REPA2; RPA32; RP-A p32; RP-A p34**Application** : WB, ICC/IF**Reactivity** : Human,Mouse,Rat**Host species** : Rat**Background**

This 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. This 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. [provided by RefSeq, Sep 2017]

Immunogen

Recombinant protein of human RPA32/RPA2

Gene ID

6118

Swiss Prot

P15927

Synonyms

REPA2; RPA32; RP-A p32; RP-A p34

Reactivity

Human,Mouse,Rat

Application

WB, ICC/IF

Recommended dilution

WB: 1:1000

ICC/IF: 1:50

Calculated MW

29 kDa

Observed MW

29 kDa

Host species	Rat
Clonality	Monoclonal
Clonality No.	DGR34306
Isotype	IgG1
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.