

Recombinant

DGRmAb®

RPA32/RPA2 (DGR12806) Rabbit mAb

db11166

Package : 10µL 20µL 50µL 100µL

Product Name : RPA32/RPA2 (DGR12806) Rabbit mAb**Cat.No.:** db11166**Synonyms :** REPA2; RPA32; RP-A p32; RP-A p34**Application :** WB, IHC, ICC/IF, FC, IP**Reactivity :** Human, Mouse, Rat**Host species :** Rabbit**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

A synthetic peptide 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, IHC, ICC/IF, FC, IP

Recommended dilution

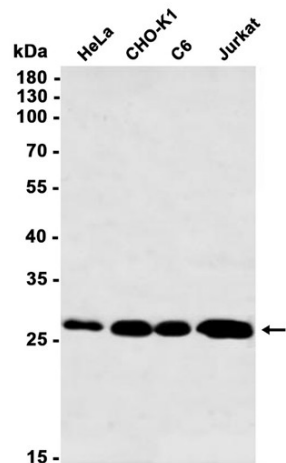
WB: 1:1000

IHC: 1:50-1:200

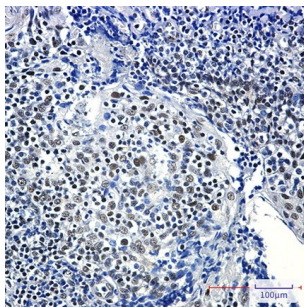
ICC/IF: 1:50

FC: 1:100-1:200

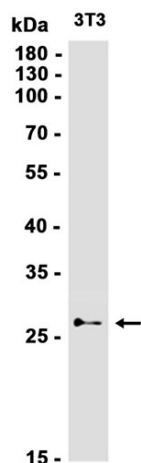
	IP: 1:20
Calculated MW	29 kDa
Observed MW	29 kDa
Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR12806
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.



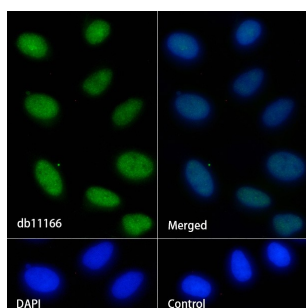
Western blot analysis of extracts from HeLa, CHO-K1, C6, Jurkat cells using db11166 at 1:500.



Immunohistochemical analysis of paraffin-embedded human tonsil using db11166 antibody.



Western blot analysis of extracts from 3T3 cells using db11166 at 1:1000.



Immunofluorescence analysis of HeLa cells labelling RPA32/RPA2 with db11166.

The cells were fixed with 4% PFA (10min, RT) followed by treatment with 0.1% Triton X-100 (10min, RT), and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db11166 (1:50) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 (db10005, shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.