

Summary

Production Name	RFA2 (117) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	RPA2
Alternative Names	p32; p34; REPA2; Replication factor A protein 2; Rf-A2; RFA; RP-A p32; RP-A p34; RP21C; RPA; Rpa2; RPA32; RPA34; RpLP1; RpP2;
Gene ID	6118.0
SwissProt ID	P15927.A synthetic peptide of human RPA32/RPA2

Application

Dilution Ratio	WB: 1:1000-1:2000
Molecular Weight	29kDa

Background

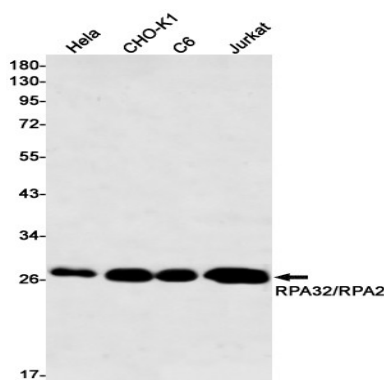
Product Name: RFA2 (117) Rabbit Monoclonal Antibody
Catalog #: AMRe17045



Required for DNA recombination, repair and replication. The activity of RP-A is mediated by single-stranded DNA binding and protein interactions. As part of the heterotrimeric replication protein A complex (RPA/RP-A), binds and stabilizes single-stranded DNA intermediates, that form during DNA replication or upon DNA stress. It prevents their reannealing and in parallel, recruits and activates different proteins and complexes involved in DNA metabolism. Thereby, it plays an essential role both in DNA replication and the cellular response to DNA damage. In the cellular response to DNA damage, the RPA complex controls DNA repair and DNA damage checkpoint activation. Through recruitment of ATRIP activates the ATR kinase a master regulator of the DNA damage response. It is required for the recruitment of the DNA double-strand break repair factors RAD51 and RAD52 to chromatin in response to DNA damage. Also recruits to sites of DNA damage proteins like XPA and XPG that are involved in nucleotide excision repair and is required for this mechanism of DNA repair. Plays also a role in base excision repair (BER) probably through interaction with UNG. Also recruits SMARCAL1/HARP, which is involved in replication fork restart, to sites of DNA damage. May also play a role in telomere maintenance.

Research Area

Image Data



Western blot detection of RPA32/RPA2 in HeLa, CHO-K1, C6, Jurkat cell lysates using RPA32/RPA2 antibody(1:500 diluted).

Note

For research use only.