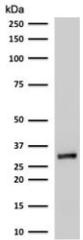
RPA32 Antibody / Replication Protein A2 [clone RPPA-1] (V7392)

Catalog No.	Formulation	Size
V7392-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7392-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7392SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	RPPA-1
Purity	Protein G affinity chromatography
UniProt	P15927
Localization	Nuclear
Applications	Western blot: 1-2ug/ml
Limitations	This RPA32 antibody is available for research use only.



Western blot testing of human A375 cell lysate with RPA32 antibody. Expected molecular weight ~32 kDa.

Description

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. [UniProt]

Application Notes

The stated application concentrations are suggested starting points. Titration of the RPA32 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Full length recombinant human protein was used as the immunogen for this RPA32 antibody.

Storage

Store the RPA32 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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