RFA2 (Ab-21) Conjugated Antibody

Catalog No: #C33162

Package Size: #C33162-AF350 100ul #C33162-AF405 100ul #C33162-AF488 100ul #C33162-AF555 100ul #C33162-AF594 100ul #C33162-AF647 100ul #C33162-AF680 100ul #C33162-AF750 100ul #C33162-Biotin 100ul

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Support: tech@signalwayantibody.com

Description

Product Name	RFA2 (Ab-21) Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total RFA2 protein
Immunogen Description	Synthesized non-phosphopeptide derived from human RFA2 around the phosphorylation site of threonine 21 (G-Y-T(p)-Q-S).
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	REPA2;RF-A;RP-A;RPA2;RPA32
Accession No.	Swiss-Prot#:P15927NCBI Gene ID:6118
Uniprot	P15927
GeneID	6118;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	32
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Product Description

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Background

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. It is required for the recruitment of the DNA double-strand break repair factors RAD52 and RAD51 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. Through RFWD3 may activate CHEK1 and play a role in replication checkpoint control. Also recruits SMARCAL1/HARP which is involved in replication fork restart to sites of DNA damage. May also play a role in telomere maintenance.

Note: This product is for in vitro research use only