

RFA2 (Phospho-Thr21) Antibody

Catalog No: #12060

Package Size: #12060-1 50ul #12060-2 100ul

Description

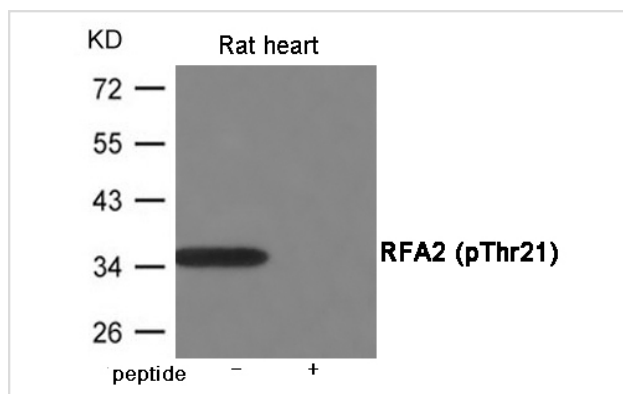
Product Name	RFA2 (Phospho-Thr21) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu Rt
Specificity	The antibody detects endogenous level of RFA2 only when phosphorylated at Threonine 21.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of Threonine 21 (G-Y-T(p)-Q-S) derived from Human RFA2.
Target Name	RFA2
Modification	Phospho
Other Names	REPA2, RPA32
Accession No.	Swiss-Prot#: P15927; NCBI Gene#: 6118; NCBI Protein#: NP_002937.1
SDS-PAGE MW	35kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

Predicted MW: 35kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from Rat heart using RFA2 (Phospho-Thr21) Antibody #12060. The lane on the right is treated with the antigen-specific peptide.

Background

Required for DNA recombination, repair and replication. The activity of RP-A is mediated by single-stranded DNA binding and protein interactions. Required for the efficient recruitment of the DNA double-strand break repair factor RAD51 to chromatin in response to DNA damage. Ref.9 Ref.14 Ref.15 Ref.16

Functions as component of the alternative replication protein A complex (aRPA). aRPA binds single-stranded DNA and probably plays a role in DNA repair; it does not support chromosomal DNA replication and cell cycle progression through S-phase. In vitro, aRPA cannot promote efficient priming by DNA polymerase alpha but supports DNA polymerase delta synthesis in the presence of PCNA and replication factor C (RFC), the dual incision/excision reaction of nucleotide excision repair and RAD51-dependent strand exchange.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.