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Datasheet for ABIN1390474

anti-RFC1 antibody (AA 401-500) (Alexa Fluor 488)

Overview

Quantity:	100 µL
Target:	RFC1
Binding Specificity:	AA 401-500
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RFC1 antibody is conjugated to Alexa Fluor 488
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human RFC1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat,Dog,Cow,Pig,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	RFC1
Alternative Name:	RFC1 (RFC1 Products)

Target Details

Background:	<p>Synonyms: DNA binding Protein PO GA, DNA-binding protein PO-GA, MHC binding factor beta, MHCBBF, RECC1, Replication factor C 140 kDa subunit, Replication factor C, Replication factor C large subunit, Replication factor C subunit 1, Replication factor C1, RF-C 140 kDa subunit, RFC1, RFC1_HUMAN, RFC140, RFC140 Replication Factor C 140 kDa subunit, A1 140 kDa subunit, A1 P145 Activator 1 large subunit, Activator 1 140 kDa subunit, Activator 1 large subunit, Activator 1 subunit 1.</p> <p>Background: Replication factor C (RFC) is an essential DNA polymerase accessory protein that is required for numerous aspects of DNA metabolism, including DNA replication, DNA repair and telomere metabolism. RFC is a heteropentameric complex that recognizes a primer on a template DNA, binds to a primer terminus and loads proliferating cell nuclear antigen (PCNA) onto DNA at primer-template junctions in an ATP-dependent reaction. All five of the RFC subunits share a set of related sequences (RFC boxes) that include nucleotide-binding consensus sequences. Four of the five RFC genes (including RFC1, RFC2, RFC3 and RFC4) have consensus ATP-binding motifs. The small RFC proteins, RFC2, RFC3, RFC4 and RFC5, interact with Rad24, whereas the RFC1 subunit does not. RFC1 is a substrate for caspase-3 in vitro and is cleaved by a caspase-3-like protease during FAS-mediated apoptosis. In addition, phosphorylation of the PCNA binding domain of RFC1 by Ca²⁺/calmodulin-dependent protein kinase II (CaMKII) inhibits DNA synthesis. The human RFC1 gene maps to chromosome 4p14 and encodes the RFC1 subunit.</p>
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Gene ID:	5981
UniProt:	P35251
Pathways:	Telomere Maintenance , DNA Damage Repair , DNA Replication , Synthesis of DNA , Dicarboxylic Acid Transport

Application Details

Application Notes:	IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL

Handling

Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months