

**Anti-RFC1 Antibody**  
**Catalog # ABO11026****Specification**

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**Anti-RFC1 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P35251</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Replication factor C subunit 1(RFC1) detection. Tested with WB, IHC-P in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-RFC1 Antibody - Additional Information**

**Gene ID** 5981

**Other Names**

Replication factor C subunit 1, Activator 1 140 kDa subunit, A1 140 kDa subunit, Activator 1 large subunit, Activator 1 subunit 1, DNA-binding protein PO-GA, Replication factor C 140 kDa subunit, RF-C 140 kDa subunit, RFC140, Replication factor C large subunit, RFC1, RFC140

**Calculated MW**

128255 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Nucleus.

**Tissue Specificity**

Wide tissue distribution. Undetectable in placental tissue.

**Protein Name**

Replication factor C subunit 1

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human RFC1(46-64aa NSSRKEDDFKQKQPSKKKR).

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the activator 1 large subunit family.

**Anti-RFC1 Antibody - Protein Information**

**Name** RFC1

**Synonyms** RFC140

**Function**

The elongation of primed DNA templates by DNA polymerase delta and epsilon requires the action of the accessory proteins PCNA and activator 1. This subunit binds to the primer-template junction. Binds the PO-B transcription element as well as other GA rich DNA sequences. Could play a role in DNA transcription regulation as well as DNA replication and/or repair. Can bind single- or double-stranded DNA.

**Cellular Location**

Nucleus.

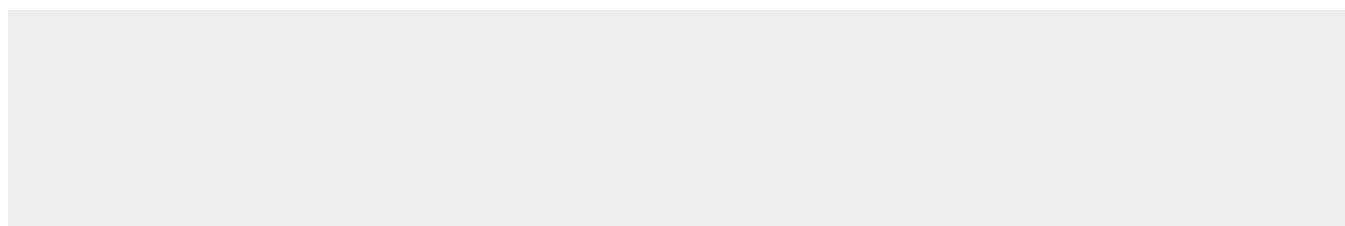
**Tissue Location**

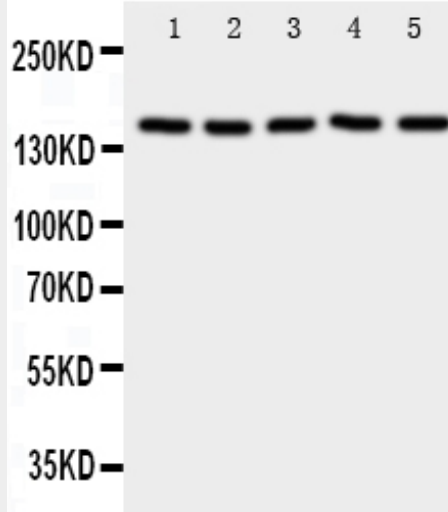
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**Anti-RFC1 Antibody - Protocols**

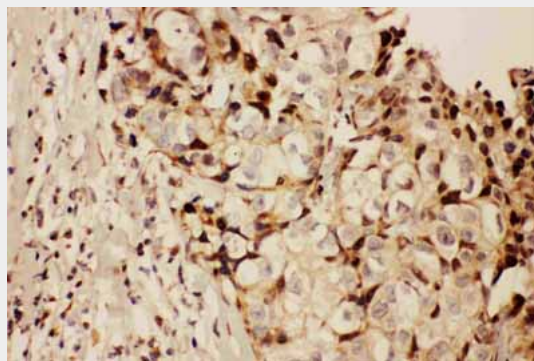
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-RFC1 Antibody - Images**



Anti-RFC1 antibody, ABO11026, Western blotting All lanes: Anti RFC1 (ABO11026) at 0.5ug/ml  
Lane 1: HELA Whole Cell Lysate at 40ug  
Lane 2: SMMC Whole Cell Lysate at 40ug  
Lane 3: JURKAT Whole Cell Lysate at 40ug  
Lane 4: CEM Whole Cell Lysate at 40ug  
Lane 5: 293T Whole Cell Lysate at 40ug  
Predicted bind size: 128KD  
Observed bind size: 150KD



Anti-RFC1 antibody, ABO11026, IHC(P) IHC(P): Human Mammary Cancer Tissue

#### **Anti-RFC1 Antibody - Background**

RFC(Replication Factor C), also called activator-1, is a multimeric primer-recognition protein consisting of 5 distinct subunits of 145, 40, 38, 37, and 36.5 kD. Human RFC was purified from extracts of HeLa cells as a host factor essential for the in vitro replication of simian virus 40(SV40) DNA. RFC, in the presence of ATP, assembles proliferating-cell nuclear antigen and DNA polymerase-delta or polymerase-epsilon on primed DNA templates. Tight interfacial coordination of the ATP analog ATP-gamma-S by RFC resulted in a spiral arrangement of the ATPase domains of the clamp loader above the PCNA ring.