

# Anti-RFC1 Antibody

Catalog # ABO11026

## Product Information

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|--------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P                                                                                                          |
| <b>Primary Accession</b> | <a href="#">P35251</a>                                                                                             |
| <b>Host</b>              | Rabbit                                                                                                             |
| <b>Reactivity</b>        | Human                                                                                                              |
| <b>Clonality</b>         | Polyclonal                                                                                                         |
| <b>Format</b>            | Lyophilized                                                                                                        |
| <b>Description</b>       | 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.

## Additional Information

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| <b>Gene ID</b>                  | 5981                                                                                                                                                                                                                                                                               |
| <b>Other Names</b>              | 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 |
| <b>Calculated MW</b>            | 128255                                                                                                                                                                                                                                                                             |
| <b>Application Details</b>      | Immunohistochemistry(Paraffin-embedded Section), 0.5-1 $\mu$ g/ml, Human, By Heat<br>Western blot, 0.1-0.5 $\mu$ g/ml, Human                                                                                                                                                       |
| <b>Subcellular Localization</b> | Nucleus.                                                                                                                                                                                                                                                                           |
| <b>Tissue Specificity</b>       | Wide tissue distribution. Undetectable in placental tissue.                                                                                                                                                                                                                        |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                                                                                          |
| <b>Protein Name</b>             | Replication factor C subunit 1                                                                                                                                                                                                                                                     |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg Na <sub>3</sub> .                                                                                                                                                       |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence at the N-terminus of human RFC1(46-64aa NSSRKEDDFKQKQPSKKKR).                                                                                                                                                                      |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                                                                                                                       |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                                                                                                                                                            |

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|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>               | 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. |
| <b>Sequence Similarities</b> | Belongs to the activator 1 large subunit family.                                                                                                                                   |

## Protein Information

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|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | RFC1                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>          | RFC140                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Function</b>          | Subunit of the replication factor C (RFC) complex which acts during elongation of primed DNA templates by DNA polymerases delta and epsilon, and is necessary for ATP-dependent loading of proliferating cell nuclear antigen (PCNA) onto primed DNA (PubMed: <a href="#">9488738</a> ). This subunit binds to the primer-template junction. Binds the PO-B transcription element as well as other GA rich DNA sequences. Can bind single- or double-stranded DNA. |
| <b>Cellular Location</b> | Nucleus.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Tissue Location</b>   | Wide tissue distribution. Undetectable in placental tissue                                                                                                                                                                                                                                                                                                                                                                                                         |

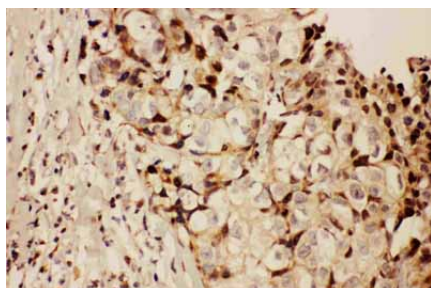
## Background

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.

## 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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.