

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

Anti-RFC1 Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P35251
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
Western blot, 0.1-0.5 µg/ml, Human

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 Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

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

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:9488738). 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.

Cellular Location

Nucleus.

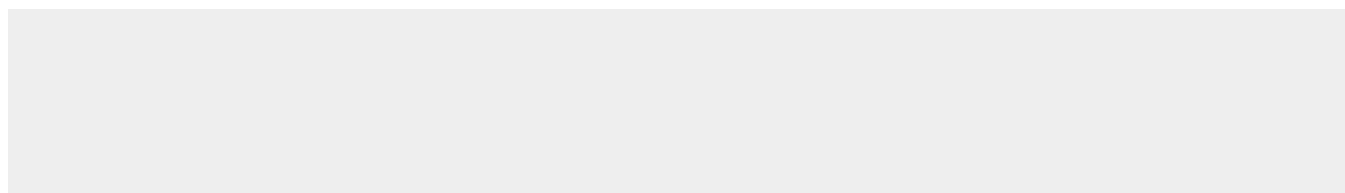
Tissue Location

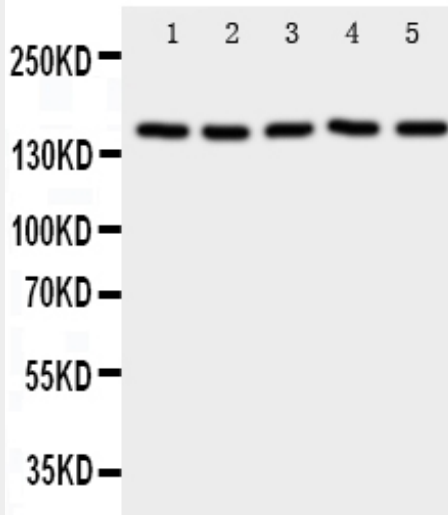
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Anti-RFC1 Antibody - Protocols

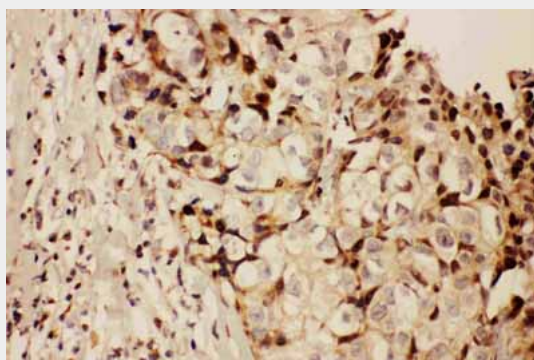
Provided below are standard protocols that you may find useful for product applications.

- [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.