

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human RFC1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human RFC1 Met800-Ser1093 Accession # P35251
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

RFC1 (Replication factor C subunit 1; also RFC140) is a 140-150 kDa, ubiquitously expressed member of the activator 1 large subunit family of proteins. It is one of five RFC complex subunits that participate in the early stages of DNA replication. Following the initiation of DNA synthesis by polα/primase, an RFC complex displaces polα at the replication fork, and recruits a PCNA homotrimeric complex to this site. This interacts with polδ to extend the newly-formed DNA strand. Human RFC1 is 1148 amino acids (aa) in length. It contains a phosphorylated-DNA binding region (aa 366-477), a PCNA binding domain (aa 478-712), an ATPase site (aa 643-772), and an NLS (aa 1120-1124). Caspase-3 cleaves RFC-1 into 97, 73 and 65 kDa fragments during apoptosis. There is one potential alternative start site at Met117. Over aa 800-1093, human RFC1 shares 90% aa identity with mouse RFC1.

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