Human RFC1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6457

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human RFC1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human RFC1 Met800-Ser1093 Accession # P35251
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

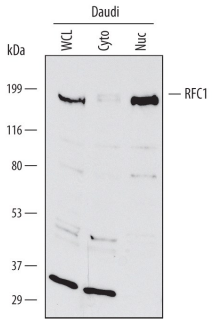
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human RFC1 by Western Blot. Western blot shows lysates of Daudi human Burkitt's lymphoma cell line. Gels were loaded with 30 µg of whole cell lysate (WCL), 20 µg of cytoplasmic (Cyto), and 10 µg of nuclear extracts (Nuc). PVDF Membrane was probed with 1 µg/mL of Sheep Anti-Human RFC1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6457) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for RFC1 at approximately 150 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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