

DESCRIPTION

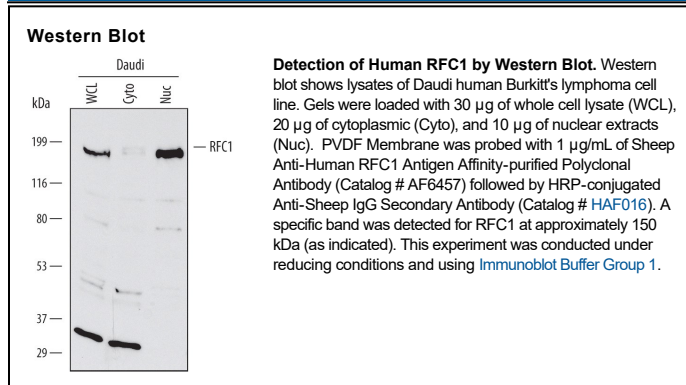
Species Reactivity	Human
Specificity	Detects human RFC1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human RFC1 Met800-Ser1093 Accession # P35251
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.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



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. <ul style="list-style-type: none"> • 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 pol α /primase, an RFC complex displaces pol α at the replication fork, and recruits a PCNA homotrimeric complex to this site. This interacts with pol δ 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.