

RFC1 Polyclonal Antibody

Catalog No :	YT5314
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA;IHC
Target :	RFC1
Fields :	>>DNA replication;>>Nucleotide excision repair;>>Mismatch repair
Gene Name :	RFC1
Protein Name :	Replication factor C subunit 1
Human Gene Id :	5981
Human Swiss Prot No :	P35251
Mouse Gene Id :	19687
Mouse Swiss Prot No :	P35601
Immunogen :	Synthesized peptide derived from the Internal region of human RFC1.
Specificity :	RFC1 Polyclonal Antibody detects endogenous levels of RFC1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 128kD

Cell Pathway : DNA replication;Nucleotide excision repair;Mismatch repair;

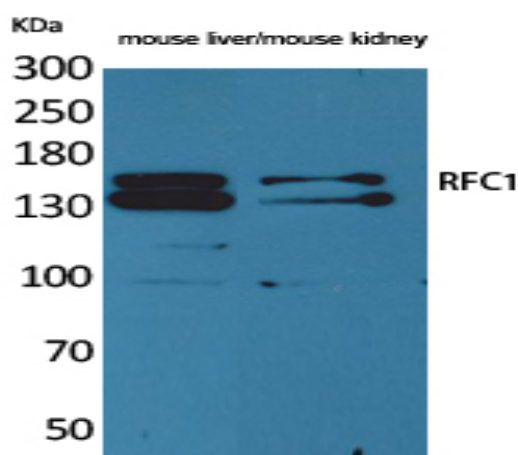
Background : This gene encodes the large subunit of replication factor C, a five subunit DNA polymerase accessory protein, which is a DNA-dependent ATPase required for eukaryotic DNA replication and repair. The large subunit acts as an activator of DNA polymerases, binds to the 3' end of primers, and promotes coordinated synthesis of both strands. It may also have a role in telomere stability. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Mar 2011],

Function : function:Interacts with C-terminus of PCNA. 5' phosphate residue is required for binding of the N-terminal DNA-binding domain to duplex DNA, suggesting a role in recognition of non-primer template DNA structures during replication and/or repair.,function:The elongation of primed DNA templates by DNA polymerase delta and epsilon requires the action of the accessory proteins PCNA and activator 1. This subunit binds to the primer-template junction. Binds the PO-B transcription element as well as other GA rich DNA sequences. Could play a role in DNA transcription regulation as well as DNA replication and/or repair. Can bind single- or double-stranded DNA.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the activator 1 large subunit family.,similarity:Contains 1 BRCT domain.,subunit:Heterotetramer of subunits RFC2, RFC3, RFC4 and RFC5 that can form a complex

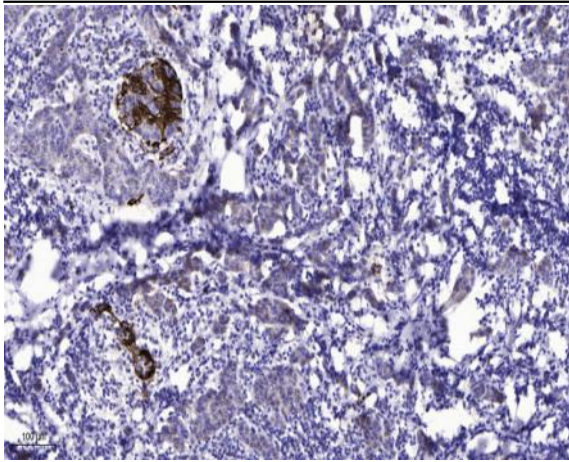
Subcellular Location : Nucleus.

Expression : Wide tissue distribution. Undetectable in placental tissue.

Products Images



Western Blot analysis of mouse liver, mouse kidney cells using RFC1 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).



Immunohistochemical analysis of paraffin-embedded human Breast cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).