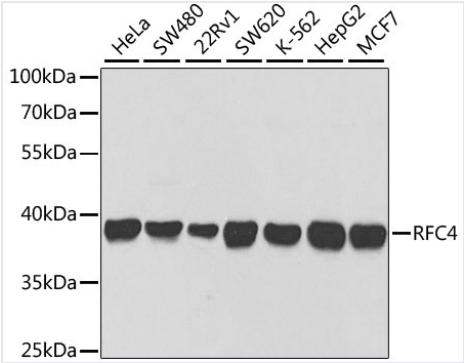
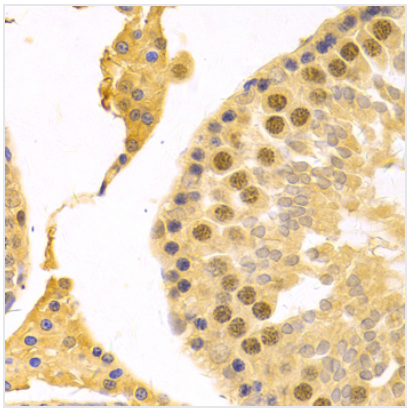
RFC4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

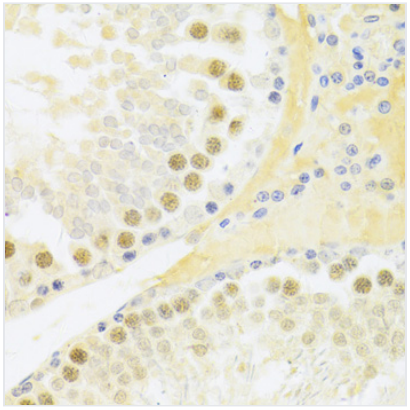
Product Name	RFC4, Polyclonal Antibody
Full Product Name	RFC4 Polyclonal Antibody
Product Gene Name	anti-RFC4 antibody
Product Synonym Names	A1; RFC37
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Rat
Purity/Purification	Affinity Purification
Concentration	1mg/ml (lot specific)
Preparation and Storage	Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Molecular Weight	363
OMIM	102577
3D Structure	ModBase 3D Structure for P35249
Species	Human
Immunogen	Recombinant protein of human RFC4
Calculated Molecular Weight	39kDa
Product Categories/Family for anti-RFC4 antibody	Polyclonal
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RFC4 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-RFC4 antibody	WB: 1:500 - 1:2000 IHC: 1:50 - 1:200 IF: 1:50 - 1:200
Related Product Information for anti-RFC4 antibody	The elongation of primed DNA templates by DNA polymerase delta and DNA polymerase epsilon requires the accessory proteins proliferating cell nuclear antigen (PCNA) and replication factor C (RFC). RFC, also named activator 1, is a protein complex consisting of five distinct subunits of 140, 40, 38, 37, and 36 kD. This gene encodes the 37 kD subunit. This subunit forms a core complex with the 36 and 40 kDa subunits. The core complex possesses DNA-dependent ATPase activity, which was found to be stimulated by PCNA in an in vitro system. Alternatively spliced transcript variants encoding the same protein have been reported.
Other Notes	Small volumes of anti-RFC4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RFC4 purchase	MBS9126290 is an antibody targeting RFC4. Also known as RFC4 Polyclonal Antibody. Reactive in Human, Rat. Host: Rabbit.



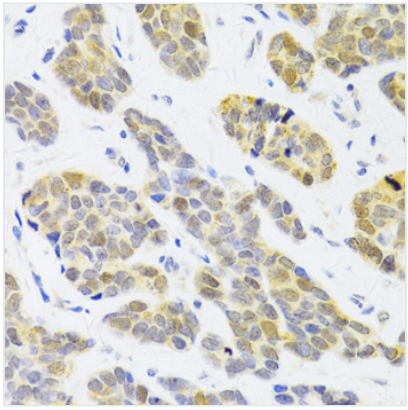
Western Blot (WB) of anti-RFC4 antibody
Western blot analysis of extracts of various cell lines, using RFC4 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 10s.



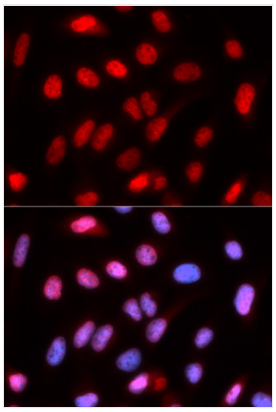
Immunohistochemistry (IHC) of anti-RFC4 antibody
Immunohistochemistry of paraffin-embedded rat testis using RFC4 Antibody at dilution of 1:100 (40x lens).



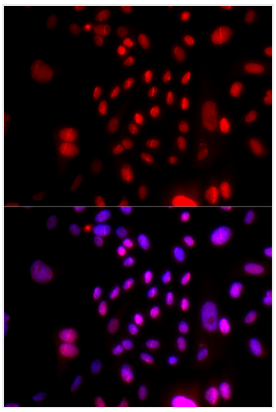
Immunohistochemistry (IHC) of anti-RFC4 antibody
Immunohistochemistry of paraffin-embedded rat testis using RFC4 Antibody at dilution of 1:100 (40x lens).



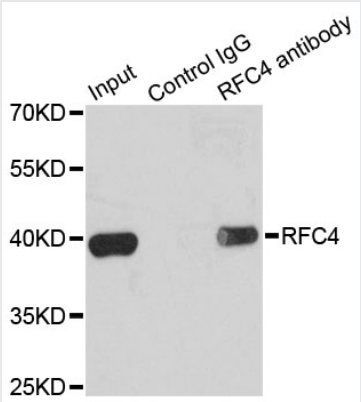
Immunohistochemistry (IHC) of anti-RFC4 antibody
Immunohistochemistry of paraffin-embedded human breast cancer using RFC4 Antibody at dilution of 1:100 (40x lens).



Immunofluorescence (IF) of anti-RFC4 antibody
Immunofluorescence analysis of U2OS cells using RFC4 antibody. Blue: DAPI for nuclear staining.



Immunofluorescence (IF) of anti-RFC4 antibody
Immunofluorescence analysis of U2OS cells using RFC4 antibody. Blue: DAPI for nuclear staining.



Immunoprecipitation (IP) of anti-RFC4 antibody
Immunoprecipitation analysis of 200ug extracts of K562 cells using 1ug RFC4 antibody. Western blot was performed from the immunoprecipitate using RFC4 antibody at a dilition of 1:1000.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RFC4. It may not necessarily be applicable to this product.

NCBI GI #	1703052
NCBI GeneID	5984
NCBI Accession #	P35249.2
UniProt Primary Accession #	P35249
UniProt Secondary Accession #	Q6FHX7; B4DM41; D3DNV2
UniProt Related Accession #	P35249
NCBI Official Full Name	Replication factor C subunit 4
NCBI Official Synonym Full Names	replication factor C (activator 1) 4, 37kDa
NCBI Official Symbol	RFC4
NCBI Official Synonym Symbols	A1; RFC37
UniProt Protein Name	Replication factor C subunit 4
UniProt Synonym Protein Names	Activator 1 37 kDa subunit; A1 37 kDa subunit; Activator 1 subunit 4; Replication factor C 37 kDa subunit; RF-C 37 kDa subunit; RFC37
Protein Family	Probable replication factor
UniProt Gene Name	RFC4
UniProt Synonym Gene Names	A1 37 kDa subunit; RF-C 37 kDa subunit; RFC37
UniProt Entry Name	RFC4_HUMAN
NCBI Protein Information	replication factor C subunit 4; A1 37 kDa subunit; RFC 37 kDa subunit; RF-C 37 kDa subunit; activator 1 subunit 4; activator 1 37 kDa subunit; replication factor C 37 kDa subunit

UniProt Comments for RFC4	RFC4: The elongation of primed DNA templates by DNA polymerase delta and epsilon requires the action of the accessory proteins proliferating cell nuclear antigen (PCNA) and activator 1. This subunit may be involved in the elongation of the multiprimed DNA template. Belongs to the activator 1 small subunits family. Protein type: DNA replication Chromosomal Location of Human Ortholog: 3q27 Cellular Component: nucleoplasm; DNA replication factor C complex; cytoplasm; nucleus Molecular Function: protein binding; ATP binding; DNA clamp loader activity Biological Process: telomere maintenance via semi-conservative replication; nucleotide-excision repair; transcription-coupled nucleotide-excision repair; telomere maintenance via recombination; DNA strand elongation during DNA replication; mitotic cell cycle; nucleotide-excision repair, DNA gap filling; DNA replication; DNA repair; telomere maintenance
Research Articles on RFC4	**1.** Observational study of gene-disease association. (HuGE Navigator)
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