

Anti-RFC1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse (predicted: Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit)
Molecular Weight:	Theoretical: 128 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: human laryngo carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;
Incubation: Anti-RFC1 Polyclonal Antibody, Unconjugated (TMAB-12210) 1: 200, overnight at 4° C, followed by conjugation to the secondary antibody and DAB staining
2. Tissue/cell: mouse intestine tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;
Incubation: Anti-RFC1 Polyclonal Antibody, Unconjugated (TMAB-12210) 1: 200, overnight at 4° C, followed by conjugation to the secondary antibody and DAB staining
3. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (RFC1) Polyclonal Antibody, Unconjugated (TMAB-12210) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
4. Paraformaldehyde-fixed, paraffin embedded (mouse lung); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (RFC1) Polyclonal Antibody, Unconjugated (TMAB-12210) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

Verified Activity: Incubation: Anti-RFC1 Polyclonal Antibody, Unconjugated (TMAB-12210) 1: 200, overnight at 4° C, followed by conjugation to the secondary antibody and DAB staining

Application: IHC-P, IHC-Fr, IF

Recommended IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human RFC1
Antigen Species: Human
Gene ID: 5981
Uniprot ID: P35251

Research Background

Replication factor C (RFC) is an essential DNA polymerase accessory protein that is required for numerous aspects of DNA metabolism, including DNA replication, DNA repair and telomere metabolism. RFC is a heteropentameric complex that recognizes a primer on a template DNA, binds to a primer terminus and loads proliferating cell nuclear antigen (PCNA) onto DNA at primer-template junctions in an ATP-dependent reaction. All five of the RFC subunits share a set of related sequences (RFC boxes) that include nucleotide-binding consensus sequences. Four of the five RFC genes (including RFC1, RFC2, RFC3 and RFC4) have consensus ATP-binding motifs. The small RFC proteins, RFC2, RFC3, RFC4 and RFC5, interact with Rad24, whereas the RFC1 subunit does not. RFC1 is a substrate for caspase-3 in vitro and is cleaved by a caspase-3-like protease during FAS-mediated apoptosis. In addition, phosphorylation of the PCNA binding domain of RFC1 by Ca²⁺/calmodulin-dependent protein kinase II (CaMKII) inhibits DNA synthesis. The human RFC1 gene maps to chromosome 4p14 and encodes the RFC1 subunit.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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