RECA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RECA, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli (strain K12) RECA Polyclonal Antibody
Product Gene Name	anti-RECA antibody
Product Synonym Names	RECA Antibody; Protein RecA; Recombinase A; recA lexB recH rnmB tif umuB zab b2699 JW2669
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	E Coli (strain K12)
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH7.4
Purity/Purification	Antigen-affinity
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	37,973 Da
3D Structure	ModBase 3D Structure for P0A7G6
Immunogen	Recombinant Escherichia coli (strain K12) recA protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RECA antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-RECA antibody	MBS7162774 is an antibody targeting RECA. Also known as Rabbit anti-Escherichia coli (strain K12) RECA Polyclonal Antibody. Reactive in E Coli (strain K12). Host: Rabbit.
Other Notes	Small volumes of anti-RECA 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.

ADDITIONAL DETAILS

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

NCBI GI #	16130606
NCBI GeneID	947170
NCBI Accession #	NP_417179.1
UniProt Primary Accession #	P0A7G6
UniProt Secondary Accession #	P03017; P26347; P78213

GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	DNA recombination and repair protein; ssDNA-dependent ATPase; synaptase; ssDNA and dsDNA binding protein; ATP-dependent homologous DNA strand exchanger; recombinase A; LexA autocleavage cofactor
NCBI Official Symbol	recA
NCBI Official Synonym Symbols	ECK2694; JW2669; lexB; recH; rnmB; srf; tif; umuB; umuR; zab
UniProt Protein Name	Protein RecA
UniProt Synonym Protein Names	Recombinase A
Protein Family	DNA repair protein
UniProt Gene Name	recA
NCBI Protein Information	DNA recombination and repair protein; ssDNA-dependent ATPase; synaptase; ssDNA and dsDNA binding protein; ATP-dependent homologous DNA strand exchanger; recombinase A; LexA autocleavage cofactor
NCBI Summary for RECA	RecA does not bind to DNA with extensive stem-loop structures, except in the presence of SSB. [More information is available at EcoGene: EG10823]. In Escherichia coli, RecA serves a variety of biochemical functions: [More information is available at EcoCyc: EG10823].
UniProt Comments for RECA	Required for homologous recombination and the bypass of mutagenic DNA lesions by the SOS response. Catalyzes ATP-driven homologous pairing and strand exchange of DNA molecules necessary for DNA recombinational repair. Catalyzes the hydrolysis of ATP in the presence of single-stranded DNA, the ATP-dependent uptake of single-stranded DNA by duplex DNA, and the ATP-dependent hybridization of homologous single-stranded DNAs. The SOS response controls an apoptotic-like death (ALD) induced (in the absence of the mazE-mazF toxin-antitoxin module) in response to DNA damaging agents that is mediated by RecA and LexA (PubMed:22412352).
Research Articles on RECA	**1.** Coupling of helicase and RecA-loading activity during dsDNA-end resection is crucial in avoiding the deleterious effects of a long and stabile 3' tail in E. coli.
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