



Anti-umuD polyclonal antibody (CABT-BL3735)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Purified recombinant LacZ-UmuD fusion protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	E. coli
Purification	Whole antiserum
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Size	100 µl
Buffer	Whole serum
Preservative	0.05% Sodium Azide
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction	The products of umuD, umuC, and recA genes (SOS genes) are required for mutagenesis induced by radiation or chemical agents. Transcription of these SOS genes is repressed by a repressor, LexA protein in uninduced cells. Exposure of cells to DNA-damaging agents activates RecA protein to promote proteolytic cleavage of LexA protein. Inactivation of LexA protein by the cleavage consequently derepresses the SOS genes, umuD, C and recA. UmuD protein is then auto-cleaved, which is promoted by RecA protein ssDNA in a ATP-dependent
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manner. The processed UmuD protein is the active form for mutagenesis and the UmuD-UmuC complex functions as an error-prone translesion DNA polymerase.
The molecular weight of the intact UmuD is 17kD and the proteolytically processed active form is 14kD.

GENE INFORMATION

Entrez Gene ID	945746
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Protein Refseq	NP_415701
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UniProt ID	P0AG11
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