Datasheet for ABIN2452172

POLK Protein

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Overview

Quantity:	50 µg
Target:	POLK
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	ELISA, Western Blotting (WB), Functional Studies (Func)

Product Details

Characteristics:	This product was over-expressed as a recombinant protein in E. coli with a plasmid carrying a C-terminal histidine-tagged human DNA polymerase κ (1-560 aa), and highly purified by several steps of chromatography. The product is catalytically active and its molecular weight is 65 kD. Activity of this product has been confirmed by a user researcher even if it was diluted 8,000-fold.
Purity:	> 90 % by SDS-PAGE (CBB staining)

Target Details

Target:	POLK
Alternative Name:	DNA Polymerase kappa (POLK Products)
Background:	Mammalian DNA polymerase κ, a member of the UmuC/DinB nucleotidyl transferase superfamily, has been implicated in spontaneous mutagenesis. Human DNA polymerase κ

Target Details

	copies undamaged DNA with average single-base subsitution and deletion error rates of 7 x 10-3 and 2 x 10-3, respectively. These error rates are high when compared to those of most other DNA polymerases. DNA polymerase κ has important role in the mutagenic bypass of certain types of DNA lesions.
UniProt:	Q9UBT6
Pathways:	DNA Damage Repair

Application Details

Application Notes:	Other applications are not tested.
Restrictions:	For Research Use only

Handling

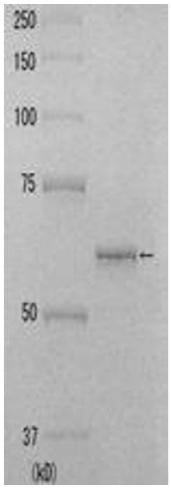
Format:	Liquid
Concentration:	3.2 mg/mL
Buffer:	0.2 M NaCl, 10 mM sodium phosphate buffer (pH 7.0), 50 % glycerol
Storage:	-20 °C/-80 °C
Storage Comment:	Upon arrival centrifuge briefly and store at -20 C or at -80 C for longer storage.

Publications

Product cited in:	Schaeffer, Hansen, Morris, LeBoeuf, Abrass: "RNA-binding protein IGF2BP2/IMP2 is required for laminin-?2 mRNA translation and is modulated by glucose concentration." in: **American journal of physiology. Renal physiology**, Vol. 303, Issue 1, pp. F75-82, (2012) (PubMed).

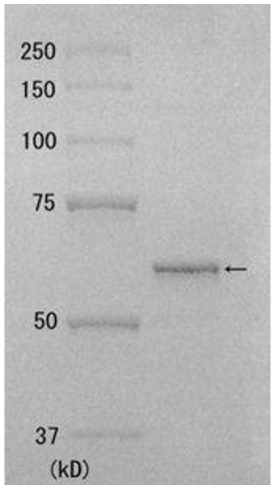
SDS-PAGE

Image 1.



Western Blotting

Image 2.



Western Blotting

Image 3.