

Datasheet for ABIN7564143
POLI Protein (AA 1-717) (His tag)



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Overview

Quantity:	1 mg
Target:	POLI
Protein Characteristics:	AA 1-717
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLI protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Poli Protein expressed in mammalien cells.
Sequence:	MEPLHAGAAG SSRAVCSQGP PTQISSRVI VHVLDLCFYA QVEMISNP EL KDRPLGVQQK YLVVTCNYEA RKLGV RKL MN VRDAKEKCPQ LVLVNGEDLS RYREMSYKVT ELLEEFSPAV ERLGF DENFV DLTEMVEKRL QQLPSEEVPS VTVFGHVYNN QSVNLHNIMH RRLVVG SQIA AEMREAMYNQ LGLTGCAGVA PNKLLAKLVS GVFKPNQQT V LLPESCQH LI HSLNHIKEIP GIGYKTAKRL EVLGINSVHD LQTFPIKTLE KELGIAIAQR IQQLSFGEDK SPVTPSGPPQ SFSEEDTFKK CSSEVEAKAK IEELLSSLLT RVCQDGRKPH TVRLVIRRY S DKHCNRESRQ CPIPSHVIQK LGTGNHDSMP PLIDILMKLF RNMVNVKMPF HLTLM SVCFC NLKALSSAKK GPMDCYL TSL STPAYTDKRA FKVKDTHTED SHKEKEANWD CLPSRRIEST GTGESPLDAT CFPKEKDTSD LPLQALPEGV DQEVFKQLPA DIQEEILY GK SRENKLGKGS LSCPLHASRG VLSFFSTKQM QASRLSPRDT ALPSKRVSAA SPCEPGT SGL SPGSTSH PSC GKDCSYYIDS QLKDEQTSQG PTESQGCQFS STNPAVSGFH SFPNLQTEQL FSTHRTVDSH KQTATASHQG

Product Details

LESHQGLESRLDSEAEKLP FPPDIDPQVF YELPEEVQKE LMAEWERAGA ARPSAHR **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

POLI

Alternative Name:

Poli ([POLI Products](#))

Background:

DNA polymerase iota (EC 2.7.7.7) (Rad30 homolog B),FUNCTION: Error-prone DNA polymerase specifically involved in DNA repair (PubMed:15026325, PubMed:16357261). Plays an important role in translesion synthesis, where the normal high-fidelity DNA polymerases cannot proceed and DNA synthesis stalls (PubMed:15026325, PubMed:16357261). Favors Hoogsteen base-pairing in the active site. Inserts the correct base with high-fidelity opposite an adenosine template (By similarity). Exhibits low fidelity and efficiency opposite a thymidine template, where it will preferentially insert guanosine (By similarity). May play a role in hypermutation of immunoglobulin genes (By similarity). Forms a Schiff base with 5'-deoxyribose phosphate at abasic sites, but may not have lyase activity (By similarity). {ECO:0000250|UniProtKB:Q9UNA4,

Target Details

ECO:0000269|PubMed:15026325, ECO:0000269|PubMed:16357261}.

Molecular Weight: 79.7 kDa

UniProt: [Q6R3M4](#)

Pathways: [DNA Damage Repair](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months
