

Datasheet for ABIN7547123
POLA2 Protein (AA 1-598) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	POLA2
Protein Characteristics:	AA 1-598
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLA2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat POLA2 Protein expressed in mammalian cells.
Sequence:	MSASAQLAE ELQIFGLDCE EALIEKLV EL CVQYGQNEEG MVGELIAFCT STHKVGLTSE ILNSFEHEFL SKRLSKARHS TCKDSGHAGA RDIVSIQELI EEEEEIEILL NSYTTPSKGS QKRAISTPET PLTKRSVSTR SPHQLLSPSS FSPSATPSQK YNSRSNRGEV VTSFGLAQQV SWSGRGGAGN ISLKVLCPE ALTGSYKSMF QKLPDIREVL TCKIEELGSE LKEHYKIEAF TPLLAPAQEP VTLLGQIGCD SNGKLNKSV ILEGDREHSS GAQIPVDLSE LKEYSLFPGQ VVIMEGINTT GRKLVATKLY EGVPLPFYQP TEEDADFEQS MVLVACGPYT TSDSITYDPL LDLIAVINHD RPDVCILFGP FLDKHEQVE NCLLTSPFED IFKQCLRTII EGTRSSGSHL VFVPSLRDVH HEPVYPQPPF SYSDLSREDK KQVQFVSEPC SLSINGVIFG LTSTDLLFHL GAEEISSSSG TSDRFSRILK HILTQRSYYP LYPPQEDMAI DYESFYVYQA LPVTPDVLII PSELRYFVKD VLGCVCVNPG RLTKGQVGGT FARLYLRRPA ADGAERQSPC IAVQVRI 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:

POLA2

Alternative Name:

POLA2 ([POLA2 Products](#))

Background:

DNA polymerase alpha subunit B (DNA polymerase alpha 70 kDa subunit),FUNCTION: Accessory subunit of the DNA polymerase alpha complex (also known as the alpha DNA polymerase-primase complex) which plays an essential role in the initiation of DNA synthesis (PubMed:9705292). During the S phase of the cell cycle, the DNA polymerase alpha complex (composed of a catalytic subunit POLA1, an accessory subunit POLA2 and two primase subunits, the catalytic subunit PRIM1 and the regulatory subunit PRIM2) is recruited to DNA at the replicative forks via direct interactions with MCM10 and WDHD1 (By similarity). The primase subunit of the polymerase alpha complex initiates DNA synthesis by oligomerising short RNA primers on both leading and lagging strands (By similarity). These primers are initially extended by the polymerase alpha catalytic subunit and subsequently transferred to polymerase delta and polymerase epsilon for processive synthesis on the lagging and leading

Target Details

strand, respectively (By similarity). {ECO:0000250|UniProtKB:P09884, ECO:0000250|UniProtKB:P20664, ECO:0000269|PubMed:9705292}.

Molecular Weight: 65.9 kDa

UniProt: [Q14181](#)

Pathways: [Telomere Maintenance](#), [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [Protein targeting to Nucleus](#), [Synthesis of DNA](#), [SARS-CoV-2 Protein Interactome](#)

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