

Datasheet for ABIN7563145 POLA1 Protein (AA 1-1465) (His tag)



Overview

Quantity:	1 mg
Target:	POLA1
Protein Characteristics:	AA 1-1465
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLA1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Pola1 Protein expressed in mammalian cells.
Sequence:	MAPMHEEDCK LEASAVSDSG SFAASRARRE KKSKKGRQEA LERLKKAKAG EKYKYEVEDL
	TSVYEEVDEE QYSKLVQARQ DDDWIVDDDG IGYVEDGREI FDDDLEDDAL DTCGKGSDGK
	AHRKDRKDVK KPSVTKPNNI KAMFIASAGK KTTDKAVDLS KDDLLGDILQ DLNTETAQIT
	PPPVLIPKKK RSTGALLNPF SVHTPKAIPS GKPASPVLRN EPLLTPIPLK RAELAGELAQ
	PECPEDEQEL GVMEFEDGDF DESMDTEKVD EKPVTAKTWD QETEPVERVE HEADPERGTT
	SYLENFLPDV SCWDIDQDDE SIPQEVQVDS SNLPLVKGAD DEQVFQFYWL DAYEDPYNQP
	GVVFLFGKVW IESVKTHVSC CVMVKNIERT LYFLPREMKF DLNTGKETAI PVTMKDVYEE
	FDSKISAKYK IMKFKSKIVE KNYAFEIPDV PEKSEYLEVR YSAEVPQLPQ NLKGETFSHV
	FGTNTSSLEL FLMNRKIKGP CWLEVKNPQL LNQPISWCKF EVMALKPDLV NVIKDVSPPP
	LVVMSFSMKT MQNVQNHQHE IIAMAALVHH SFALDKAPPE PPFQTHFCVV SKPKDCIFPC
	DFKEVISKKN MKVEIAATER TLIGFFLAKV HKIDPDILVG HNICSFELEV LLQRINECKV
	PYWSKIGRLR RSNMPKLGSR SGFGERNATC GRMICDVEIS AKELIHCKSY HLSELVQQIL

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	KTERIVIPTE NIRNMYSESS YLLYLLEHIW KDARFILQIM CELNVLPLAL QITNIAGNIM
	SRTLMGGRSE RNEFLLLHAF YENNYIVPDK QIFRKPQQKL GDEDEEIDGD TNKYKKGRKK
	ATYAGGLVLD PKVGFYDKFI LLLDFNSLYP SIIQEFNICF TTVQRVTSEV QKATEDEEQE
	QIPELPDPNL EMGILPREIR KLVERRKQVK QLMKQQDLNP DLVLQYDIRQ KALKLTANSM
	YGCLGFSYSR FYAKPLAALV TYKGREILMH TKDMVQKMNL EVIYGDTDSI MINTNSTNLE
	EVFKLGNKVK SEVNKLYKLL EIDIDAVFKS LLLLKKKKYA ALVVEPTSDG NYITKQELKG
	LDIVRRDWCD LAKDTGNFVI GQILSDQSRD TIVENIQKRL IEIGENVLNG SVPVSQFEIN
	KALTKDPQDY PDRKSLPHVH VALWINSQGG RKVKAGDTVS YVICQDGSNL TATQRAYAPE
	QLQKLDNLAI DTQYYLAQQI HPVVARICEP IDGIDAVLIA LWLGLDSTQF RVHQYHKDEE
	NDALLGGPAQ LTDEEKYKDC EKFKCLCPSC GTENIYDNVF EGSGLDMEPS LYRCSNVDCK
	VSPLTFMVQL SNKLIMDIRR CIKKYYDGWL ICEEPTCCSR LRRLPLHFSR NGPLCPVCMK
	AVLRPEYSDK SLYTQLCFYR YIFDADCALE KLTEHEKDKL KKQFFPLRVL QDYRKVKNIA
	EQFLSWSGYS EVNLSKLFAN YAGKS 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different
	isoform, please contact us regarding an individual offer.
ol	
Characteristics:	Key Benefits:
Unaracteristics:	 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.
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Characteristics: Purity:	 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

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Target:	POLA1
Alternative Name:	Pola1 (POLA1 Products)
Background:	DNA polymerase alpha catalytic subunit (EC 2.7.7.7) (DNA polymerase alpha catalytic subunit p180),FUNCTION: Catalytic 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:8253737, PubMed:8026492). During the S phase of the cell cycle, the DNA polymerase alpha complex (composed of a catalytic subunit POLA1, a regulatory subunit POLA2 and two primase subunits PRIM1 and PRIM2) is recruited to DNA at the replicative forks via direct interactions with MCM10 and WDHD1. The primase subunit of the polymerase alpha complex initiates DNA synthesis by oligomerising short RNA primers on both leading and lagging strands. 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 strand, respectively. The reason this transfer occurs is because the polymerase alpha has limited processivity and lacks intrinsic 3' exonuclease activity for proofreading error, and therefore is not well suited for replicating long complexes. In the cytosol, responsible for a substantial proportion of the physiological concentration of cytosolic RNA:DNA hybrids, which are necessary to prevent spontaneous activation of type I interferon responses. {EC0:0000250 UniProtKB:P09884, EC0:0000269 PubMed:8026492, EC0:0000269 PubMed:8253737}.
Molecular Weight:	167.3 kDa
UniProt:	P33609
Pathways:	SARS-CoV-2 Protein Interactome
Application Details	
Application Notes:	We expect the protein to work for functional studies. 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.

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Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months