

Recombinant Human POLA1

Cat. No. POLA1-28359TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human DNA polymerase alpha (aa 1363-1462) with a N terminal proprietary tag: predicted molecular weight 36.63 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	This gene encodes the catalytic subunit of DNA polymerase, which together with a regulatory and two primase subunits, forms the DNA polymerase alpha complex. The catalytic subunit plays an essential role in the initiation of DNA replication.
Molecular Weight	36.630kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino	QFSRTGPLCPACMKATLQPEYSDKSLYTQLCFYRYIFDAECALEKLTTDHEKDKLKK

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acids QFFTPKVLQDYRKLKNTAEQFLSRSGYSEVNLSKLFAGCAVKS

Sequence
Similarities Belongs to the DNA polymerase type-B family.

GENE INFORMATION

Gene Name POLA1 polymerase (DNA directed), alpha 1, catalytic subunit [Homo sapiens]

Official Symbol POLA1

Synonyms POLA1; polymerase (DNA directed), alpha 1, catalytic subunit; POLA, polymerase (DNA directed), alpha , polymerase (DNA directed), alpha 1; DNA polymerase alpha catalytic subunit; p180;

Gene ID 5422

mRNA Refseq NM_016937

Protein Refseq NP_058633

MIM 312040

Uniprot ID P09884

Chromosome Location Xp22.1-p21.3

Pathway Activation of the pre-replicative complex, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; DNA Replication, organism-specific biosystem; DNA Replication, organism-specific biosystem;

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Function

DNA binding; DNA binding; contributes_to DNA primase activity; DNA-directed DNA polymerase activity; DNA-directed DNA polymerase activity;

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