



Anti-POLA1 (aa 1363-1462) polyclonal antibody (DPAB-DC2308)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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.

Immunogen POLA (NP_058633, 1363 a.a. ~ 1462 a.a) partial recombinant protein with GST tag. The sequence is
QFSRTGPLCPACMKATLQPEYSDKSLYTQLCFYRYIFDAECALEKLTTDHEKDKLKKQFF
TPKVLQDYRKLKNTAEQFLSRSGYSEVNLSKLFAGCAVKS

Source/Host Mouse

Species Reactivity Human

Conjugate Unconjugated

Applications WB (Recombinant protein), ELISA,

Size 50 µl

Buffer 50 % glycerol

Preservative None

Storage Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

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

Official Symbol	POLA1
Synonyms	POLA1; polymerase (DNA directed), alpha 1, catalytic subunit; NSX; POLA; p180; DNA polymerase alpha catalytic subunit; DNA polymerase alpha p180 subunit; polymerase (DNA-directed), alpha (70kD); DNA polymerase alpha 1 catalytic subunit; DNA polymerase alpha catalytic subunit p180; N syndrome (mental retardation, malformations, chromosome breakage);
Entrez Gene ID	5422
Protein Refseq	NP_058633
UniProt ID	P09884
Chromosome Location	Xp22.1-p21.3
Pathway	Activation of the pre-replicative complex; Cell Cycle, Mitotic; DNA Replication; DNA polymerase alpha / primase complex
Function	3-5 exonuclease activity; 4 iron, 4 sulfur cluster binding; DNA binding; contributes_to DNA primase activity