

POLDIP2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7626c**Specification**

POLDIP2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9Y2S7](#)**POLDIP2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 26073**Other Names**

Polymerase delta-interacting protein 2, 38 kDa DNA polymerase delta interaction protein, p38, POLDIP2, PDIP38, POLD4

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7626c](/products/AP7626c) was selected from the Center region of human POLDIP2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

POLDIP2 Antibody (Center) Blocking Peptide - Protein Information**Name** POLDIP2 {ECO:0000303|PubMed:26984527, ECO:0000312|HGNC:HGNC:23781}**Function**

Involved in DNA damage tolerance by regulating translesion synthesis (TLS) of templates carrying DNA damage lesions such as 8oxoG and abasic sites (PubMed: [24191025](http://www.uniprot.org/citations/24191025)). May act by stimulating activity of DNA polymerases involved in TLS, such as PRIMPOL and polymerase delta (POLD1) (PubMed: [24191025](http://www.uniprot.org/citations/24191025), PubMed: [26984527](http://www.uniprot.org/citations/26984527)).

Cellular Location

Mitochondrion matrix. Nucleus Note=Mainly localizes to the mitochondrial matrix; a small fraction localizes in the nucleus.

POLDIP2 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

POLDIP2 Antibody (Center) Blocking Peptide - Images

POLDIP2 Antibody (Center) Blocking Peptide - Background

POLDIP2 is a protein that interacts with the DNA polymerase delta p50 subunit. This protein also interacts with proliferating cell nuclear antigen. Some transcripts of POLDIP2 gene overlap in a tail-to-tail orientation with the gene for tumor necrosis factor, alpha-induced protein 1 (TNFAIP1).

POLDIP2 Antibody (Center) Blocking Peptide - References

Cheng,X., Kanki,T. J. Biochem. 138 (6), 673-678 (2005)Liu,L., Rodriguez-Belmonte,E.M. J. Biol. Chem. 278 (12), 10041-10047 (2003)