

POLE3 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7316a**Specification**

POLE3 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9NRF9](#)**POLE3 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 54107**Other Names**

DNA polymerase epsilon subunit 3, Arsenic-transactivated protein, AsTP, Chromatin accessibility complex 17 kDa protein, CHRAC-17, HuCHRAC17, DNA polymerase II subunit 3, DNA polymerase epsilon subunit p17, POLE3, CHRAC17

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7316a](/products/AP7316a) was selected from the N-term region of human POLE3. 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.

POLE3 Antibody (N-term) Blocking Peptide - Protein Information**Name** POLE3**Synonyms** CHRAC17**Function**

Accessory component of the DNA polymerase epsilon complex (PubMed: [10801849](http://www.uniprot.org/citations/10801849)). Participates in DNA repair and in chromosomal DNA replication (By similarity). Forms a complex with CHRAC1 and binds naked DNA, which is then incorporated into chromatin, aided by the nucleosome-remodeling activity of ISWI/SNF2H and ACF1 (PubMed: [10801849](http://www.uniprot.org/citations/10801849)). Does not enhance nucleosome sliding activity of the ACF-5 ISWI chromatin remodeling complex (PubMed: [14759371](http://www.uniprot.org/citations/14759371)).

Cellular Location

Nucleus.

Tissue Location

Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

POLE3 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

POLE3 Antibody (N-term) Blocking Peptide - Images**POLE3 Antibody (N-term) Blocking Peptide - Background**

POLE3 is a histone-fold protein that interacts with other histone-fold proteins to bind DNA in a sequence-independent manner. These histone-fold protein dimers combine within larger enzymatic complexes for DNA transcription, replication, and packaging.

POLE3 Antibody (N-term) Blocking Peptide - References

Bolognese,F., Imbriano,C. Nucleic Acids Res. 28 (19), 3830-3838 (2000)Li,Y., Pursell,Z.F. J. Biol. Chem. 275 (30), 23247-23252 (2000)