

Product Name: DNA pol ε 4 Rabbit Polyclonal Antibody
Catalog #: APRab10058



Summary

Production Name	DNA pol ε 4 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	POLE4
Alternative Names	POLE4; DNA polymerase epsilon subunit 4; DNA polymerase II subunit 4; DNA polymerase epsilon subunit p12
Gene ID	56655.0
SwissProt ID	Q9NR33. The antiserum was produced against synthesized peptide derived from human POLE4. AA range:61-110

Application

Dilution Ratio	IHC-P 1:100-1:300, ELISA 1:40000, IF-P/IF-F/ICC/IF 1:50-200
Molecular Weight	12kDa

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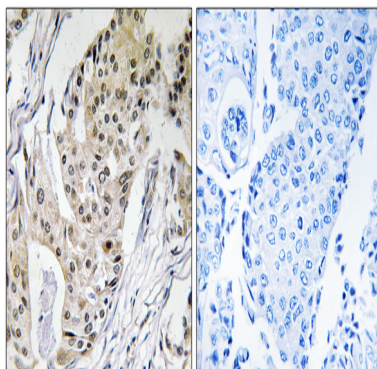
Background

POLE4 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.[supplied by OMIM, Apr 2004],catalytic activity:Deoxynucleoside triphosphate + DNA(n) = diphosphate + DNA(n+1).,function:May play a role in allowing polymerase epsilon to carry out its replication and/or repair function.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,subunit:Consists of four subunits: POLE1, POLE2, POLE3 and POLE4. Interacts with POLE3. When bound to POLE3, it can associate with polymerase epsilon p261 and p59 and form a complex.,

Research Area

Purine metabolism;Pyrimidine metabolism;DNA replication;Base excision repair;Nucleotide excision repair;

Image Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using POLE4 Antibody. The picture on the right is blocked with the synthesized peptide.

Note

For research use only.