For Research Use Only

POLD1 Polyclonal antibody Catalog Number: 15646-1-AP Featured Product 2

Featured Product 26 Publications

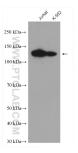


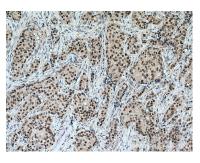
| Basic Information | Catalog Number: 15646-1-AP | GenBank Accession N BC008800 | umber: | Purification Method: Antigen affinity purification | | | |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|--|
| | Size: | GeneID (NCBI): | | Recommended Dilutions: | | | |
| | 150ul , Concentration: 300 ug/ml by | 5424 | | WB 1:500-1:3000 | | | |
| | Nanodrop and 200 ug/ml by Bradford | UNIPROT ID: P28340 Full Name: | | IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 | | | |
| | method using BSA as the standard; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG8178 | | | | | | |
| | | | | | polymerase (DNA directed), delta 1, catalytic subunit 125kDa Calculated MW: | | |
| | | 1107 aa, 124 kDa | | | | | |
| | | Observed MW: 124 kDa | | | | | |
| | | | Tested Applies from | | Desitive Cant | | |
| | | Applications | Tested Applications: WB, IP, IHC, ELISA | Positive Controls: | | | |
| | | | Cited Applications: | | WB : Jurkat cells, K-562 cells | | |
| WB, IHC | | | IP : HeLa cells | P : HeLa cells, | | | |
| Species Specificity: human | | | IHC : human breast cancer tissue, human colon canc tissue | | | | |
| Cited Species: | | | | | | | |
| human, mouse, canine | | | | | | | |
| TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0 | | | | | | | |
| Background Information | POLD1, also known as DNA polymerase subunit delta p125, is 1107 amino acid protein, which belongs to the DNA polymerase type-B family. POLD1 colocalizes with PCNA and POLD3 at S phase replication sites (PubMed:11595739). As the catalytic component of the trimeric (Pol-delta3 complex) and tetrameric DNA polymerase delta complexes (Pol-delta4 complex), plays a crucial role in high fidelity genome replication, including in lagging strand synthesis, and repair. A previous study demonstrated that overexpression of POLD1 is associated with an increased risk of breast cancer. (PMID: 30344713) | | | | | | |
| | | | • | | | | |
| Notable Publications | associated with an increased risk of b | | 344713) | | | | |
| Notable Publications | associated with an increased risk of b Author Put | omed ID Journ | 344713) nal | rated that overexpression of POLD1 is | | | |
| Notable Publications | associated with an increased risk of b Author Put Qinghong Qin 303 | reast cancer. (PMID: 30 omed ID Journ 344713 Onco | 344713) nal | rated that overexpression of POLD1 is Application WB | | | |
| Notable Publications | associated with an increased risk of b Author Put Qinghong Qin 302 Xiulei Mo 355 | reast cancer. (PMID: 30 omed ID Journ 344713 Onco 512704 Cell | 344713) nal I Lett | rated that overexpression of POLD1 is Application | | | |
| Notable Publications | associated with an increased risk of b Author Put Qinghong Qin 302 Xiulei Mo 355 | reast cancer. (PMID: 30 omed ID Journ 344713 Onco 512704 Cell | 344713) nal I Lett | Application WB WB | | | |
| | associated with an increased risk of b Author Put Qinghong Qin 303 Xiulei Mo 353 Xiaolin Yang 353 Storage: Storage Store at -20°C. Stable for one year after Storage Buffer: | reast cancer. (PMID: 30 pmed ID Journ 344713 Onco 512704 Cell 350592 Onco er shipment. | 344713) nal I Lett | Application WB WB | | | |
| Notable Publications Storage | associated with an increased risk of b Author Put Qinghong Qin 303 Xiulei Mo 355 Xiaolin Yang 353 Storage: Store at -20°C. Stable for one year after | reast cancer. (PMID: 30 pmed ID Journ 344713 Onco 512704 Cell 350592 Onco er shipment. % glycerol pH 7.3. | 344713) nal I Lett | Application WB WB | | | |
| | Author Put Qinghong Qin 303 Xiulei Mo 355 Xiaolin Yang 353 Storage: Storage Buffer: PBS with 0.02% sodium azide and 50% | reast cancer. (PMID: 30 pmed ID Journ 344713 Onco 512704 Cell 350592 Onco er shipment. % glycerol pH 7.3. | 344713) nal I Lett | Application WB WB | | | |
| Storage | Author Put Qinghong Qin 303 Xiulei Mo 355 Xiaolin Yang 353 Storage: Storage Buffer: PBS with 0.02% sodium azide and 50% | reast cancer. (PMID: 30 pmed ID Journ 344713 Onco 512704 Cell 350592 Onco er shipment. % glycerol pH 7.3. | 344713) nal I Lett | Application WB WB | | | |

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

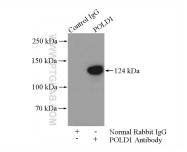
Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 15646-1-AP (POLD1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 15646-1-AP (POLD1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-POLD1 (IP:15646-1-AP, 4ug; Detection:15646-1-AP 1:500) with HeLa cells lysate 2800ug.