

For Research Use Only

POLD1 Recombinant monoclonal antibody

Catalog Number: 86197-2-RR



Basic Information

Catalog Number: 86197-2-RR	GenBank Accession Number: BC008800	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 5424	CloneNo.: 250828E5
Isotype: IgG	UNIPROT ID: P28340	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:500-1:2000 IF/ICC: 1:400-1:1600
Immunogen Catalog Number: AG8178	Full Name: polymerase (DNA directed), delta 1, catalytic subunit 125kDa	
	Calculated MW: 1107 aa, 124 kDa	
	Observed MW: 124 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HEK-293 cells, RAW 264.7 cells, PC-12 cells

IHC : human colon cancer tissue,

IF/ICC : HeLa cells,

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. (

Storage

Storage:
Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

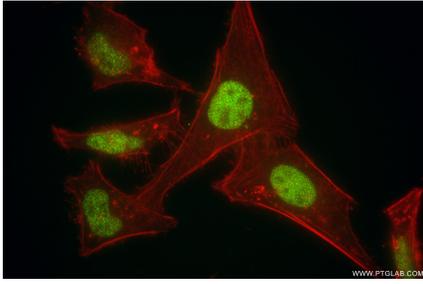
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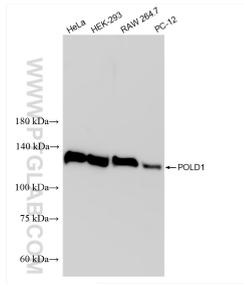
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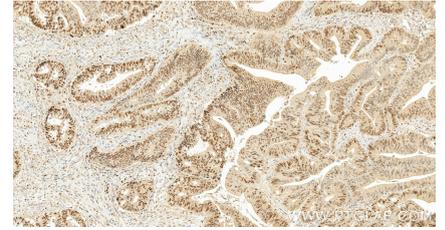
Selected Validation Data



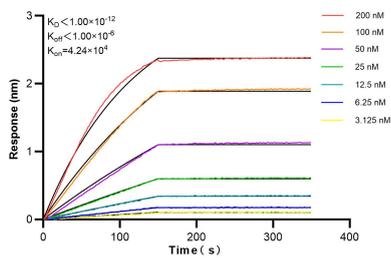
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using POLD1 antibody (86197-2-RR, Clone: 250828E5) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Various lysates were subjected to SDS PAGE followed by western blot with 86197-2-RR (POLD1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 86197-2-RR (POLD1 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 86197-2-RR against Human POLD1 were performed. The affinity constant is below 1 pM.