For Research Use Only

POLQ Polyclonal antibody

Catalog Number: 28590-1-AP

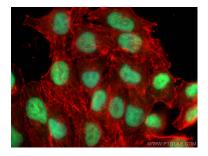


Basic Information	Catalog Number: 28590-1-AP	GenBank Accession Number: NM_199420	Purification Method: Antigen affinity purification
	Size: 150ul, Concentration: 450 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG29643	GenelD (NCBI):	Recommended Dilutions: WB 1:500-1:1000 IF/ICC 1:300-1:1200
Applications	Tested Applications: WB, IF/ICC, ELISA Species Specificity: human, rat	WB : He	e Controls: 2La cells, HuH-7 cells, HepG2 cells, L02 cells : A375 cells, A431 cells
Background Information	DNA Polymerase Theta (POLQ) is a DNA polymerase involved in error-prone translesion DNA synthesis (TLS) and error-prone repair of DNA double-strand breaks (DSBs). The enzyme has several unique properties, including low fidelity and the ability to insert and extend past abasic sites and thymine glycol lesions. Accumulating evidence showed that POLQ participates in the development and progression of human cancers because of its critical functions in the repair of genomic double-strand breaks (PMID: 34517891, 27264557). The POLQ cDNA encodes a polypeptide of 2592 amino acids with a predicted mass of 290 kDa, but POLQ is readily proteolyzed with smaller bands at approximately 70 kDa and 110 kDa (PMID: 17334634, 14576298).		
Storage	Storage: Store at -20°C. Stable for one year af Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C s	0% glycerol pH 7.3.	
*** 20ul sizes contain 0.1% BSA	Auquoting is unnecessary for -20 C	Storage	

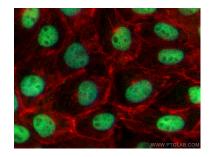
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed A375 cells using POLQ antibody (28590-1-AP) at dilution of 1:600 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using POLQ antibody (28590-1-AP) at dilution of 1:600 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594phalloidin (red).



Various lysates were subjected to SDS PAGE followed by western blot with 28590-1-AP (POLQ antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 28590-1-AP (POLQ antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.