For Research Use Only

## NEIL1 Recombinant antibody

Catalog Number:83376-7-RR

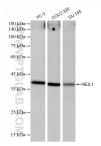


Basic Information	Catalog Number: 83376-7-RR	GenBank Accession Number: BC010876	Purification Method: Protein A purfication
	Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit	GenelD (NCBI): 79661	CloneNo.: 240322G10
		UNIPROT ID: 096FI4	Recommended Dilutions: WB 1:500-1:2000
		Full Name: nei endonuclease VIII-like 1 (E. coli)	
	lsotype: IgG		
	Immunogen Catalog Number: AG2793	Calculated MW: 390 aa, 44 kDa	
		Observed MW: 40-45 kDa	
Applications	Tested Applications:	Positive Controls: WB : PC-3 cells, COLO 320 cells, DU145 cells	
	WB, ELISA Species Specificity: human		
Background Information	damaged by oxidation or by mutager damaged bases. It has a preference for and 5-hydroxyuracil. NEIL1 has margi activity and introduces nicks in the D a single-strand break at the site of the glycosylase/lyase activity towards m	nic agents. NEIL1 acts as DNA glyco or oxidized pyrimidines, such as the nal activity towards 8-oxoguanine NA strand. It cleaves the DNA back e removed base with both 3'- and 5 nismatched uracil and thymine, in epresent an adaptive response aga	ymine glycol, formamidopyrimidine (Fapy) e. It has AP (apurinic/apyrimidinic) lyase bone by beta-delta elimination to generate s'-phosphates. NEIL1 has DNA particular in U:C and T:C mismatches. The hinst ROS-induced DNA damage resulting
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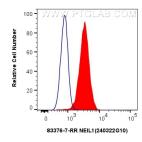
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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

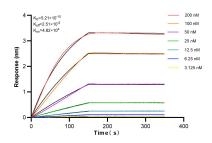
## Selected Validation Data



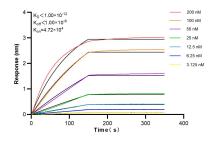
Various lysates were subjected to SDS PAGE followed by western blot with 83376-7-RR (NEIL1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1x10^6 HEK-293 cells were intracellularly stained with 0.25 ug NEIL1 Recombinant antibody (83376-7-RR, Clone:240322G10) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 83376-7-RR against Human NEIL1 were performed. The affinity constant is 0.521 nM.



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