For Research Use Only

## Phospho-P53 (Ser46) Monoclonal antibody

Catalog Number:67900-1-lg

1 Publications

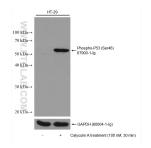


Basic Information	Catalog Number:GenBank Accession Num67900-1-lgBC003596		umber:	Purification Method: Protein G purification CloneNo.: 1D10A12	
	Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; Source: Mouse Isotype: IgG1	UNIPROT ID: P04637 Full Name: tumor protein p53 Calculated MW:			
				Recommended Dilutions: WB 1:5000-1:50000	
				IHC 1:500-1:2000 IF/ICC 1:200-1:800	
		44 kDa Observed MW: 53 kDa			
Applications	Tested Applications: Positive Controls:		trols:		
	WB, IHC, IF/ICC, FC (Intra), ELISA Cited Applications: WB		etoposide tre	HT-29 cells, Calyculin A treated HT-29 cells, oside treated HT-29 cells, UV treated A431 cells culin A treated HEK-293 cells	
	Species Specificity: human		IHC : human colon cancer tissue,		
	Cited Species: human	Cited Species:			
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
		ith citrate			
Background Information	buffer pH 6.0	tion of normal cell hom , hypoxia, and oncoge s cell-cycle arrest, DNA onditions these protein ions the function of the	ne activation. F A synthesis and ns bind p53, ub MdM2-MdM4 (	P53 maintains genetic stab repair, programmed cell d iquitylate it and target it fo complex is blocked by phos	ility by eath, and or degradati
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Background Information Notable Publications Storage	buffer pH 6.0 P53 is activated in response to alterat heat shock, virus infection, pH change regulating different processes, such a energy metabolism. In non-stressed co by the proteasome. In stressed condit protein-binding events and/or enhance Author Pub	tion of normal cell hom b, hypoxia, and oncogen s cell-cycle arrest, DNA onditions these protein ions the function of the ced degradation. (PMID med ID Journ 46882 J Can er shipment.	ne activation. F A synthesis and Ins bind p53, ub MdM2-MdM4 ( D: 19935675, PN Dal	253 maintains genetic stabi repair, programmed cell du iquitylate it and target it fo complex is blocked by phos MID: 24379683) App	ility by eath, and or degradation sphorylation

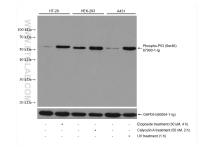
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

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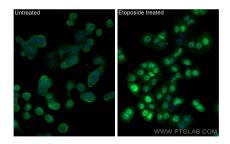
## Selected Validation Data



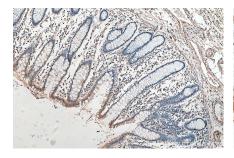
Non-treated and Calyculin A treated HT-29 cells were subjected to SDS PAGE followed by western blot with 67900-1-1g (Phospho-P53 (Ser46) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Various lysates were subjected to SDS PAGE followed by western blot with 67900-1-lg (Phospho-P53 (Ser46) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.

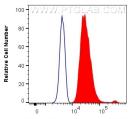


Immunofluorescent analysis of (4% PFA) fixed etoposide treated HT-29 cells using Phospho-P53 (Ser46) antibody (67900-1-Ig, Clone: 1D10A12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 67900-1-Ig (Phospho-P53 (Ser46) antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 67900-1-Ig (Phospho-P53 (Ser46) antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

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67900-1-lg Phospho-P53 (Ser46)(1D10A12)

1X10^6 HT-29 cells were intracellularly stained with 0.4 ug Anti-Human Phospho-P53 (Ser46) (67900-1-Ig, Clone:1D10A12) and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).