For Research Use Only

Phospho-P53 (Ser46) Monoclonal antibody

Catalog Number:67900-1-lg

1 Publications



Basic Information	Catalog Number: 67900-1-lg	GenBank Accession Number: BC003596 GeneID (NCBI): 7157		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: 44 kDa Observed MW: 53 kDa		Recommended Dilutions WB: 1:5000-1:50000 IHC: 1:500-1:2000 IF/ICC: 1:200-1:800 FC (Intra): 0.40 ug per 10 100 µl suspension		
Applications			Positive Con	Controls:		
	WB, IHC, IF/ICC, FC (Intra), ELISA Cited Applications: WB		etoposide tre	WB : HT-29 cells, Calyculin A treated HT-29 cells, etoposide treated HT-29 cells, UV treated A431 cells, Calyculin A treated HEK-293 cells		
	Species Specificity:		IHC : human colon cancer tissue,			
	human Cited Species:		IF/ICC : etoposide treated HT-29 cells,			
	human		FC (Intra) : H	: HT-29 cells,		
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0					
Background Information	P53 is activated in response to alterat heat shock, virus infection, pH change regulating different processes, such a energy metabolism. In non-stressed c by the proteasome. In stressed condit protein-binding events and/or enhance	e, hypoxia, and oncoge s cell-cycle arrest, DN conditions these protei ions the function of th	ne activation. F A synthesis and Ins bind p53, ub e MdM2-MdM4 o	P53 maintains genetic stab repair, programmed cell d iquitylate it and target it fo complex is blocked by phos	ility by eath, and or degradatic	
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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 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).



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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).