

For Research Use Only

CoraLite® Plus 488-conjugated Phospho-P53 (Ser46) Monoclonal antibody



Catalog Number: **CL488-67900**

Basic Information

Catalog Number: CL488-67900	GenBank Accession Number: BC003596	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 7157	CloneNo.: 1D10A12
Source: Mouse	UNIPROT ID: P04637	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Isotype: IgG1	Full Name: tumor protein p53	
	Calculated MW: 44 kDa	
	Observed MW: 53 kDa	

Applications

Tested Applications:
FC (Intra)

Species Specificity:
Human

Background Information

P53 is a 53 kDa protein that is activated in response to alteration of normal cell homeostasis, including DNA damage, nutrient starvation, heat shock, virus infection, pH change, hypoxia, and oncogene activation. P53 maintains genetic stability by regulating different processes, such as cell-cycle arrest, DNA synthesis and repair, programmed cell death, and energy metabolism. In non-stressed conditions these proteins bind p53, ubiquitylate it and target it for degradation by the proteasome. In stressed conditions the function of the Mdm2-Mdm4 complex is blocked by phosphorylation, protein-binding events and/or enhanced degradation. (PMID: 19935675, PMID: 24379683)

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

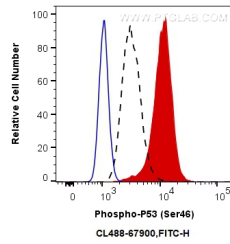
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1×10^6 HT-29 cells untreated (dashed lines) or treated with UV (red) were intracellularly stained with 0.25 μ g CoraLite® Plus 488 Anti-Human Phospho-P53 (Ser46) (CL488-67900, Clone:1D10A12), or 0.25 μ g Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.