For Research Use Only

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



Catalog Number: CL488-67900

Basic Information

Catalog Number: GenBank Accession Number:

CL488-67900 BC003596
Size: GeneID (NCBI):

100ul , Concentration: 1000 ug/ml by 7157

Nanodrop; UNIPROT ID: Source: P04637

Mouse Full Name:
Isotype: tumor protein p53

IgG1 Calculated MW: 44 kDa

Observed MW: 53 kDa Purification Method:

Protein G purification

CloneNo.: 1D10A12

Recommended Dilutions: IF/ICC 1:50-1:500

Excitation/Emission maxima

wavelengths: 493 nm / 522 nm

Applications

Tested Applications: IF/ICC, FC (Intra)
Species Specificity:

human

Positive Controls:

IF/ICC: etoposide treated HT-29 cells,

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:

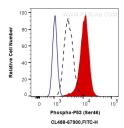
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

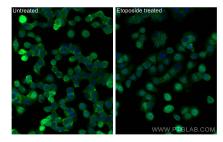
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



1X10^6 HT-29 cells untreated (dashed lines) or treated with UV (red) were intracellularly stained with 0.25 ug CoraLite® Plus 488 Anti-Human Phospho-P53 (Ser46) (CL488-67900, Clone:1D10A12), or 0.25 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.



Immunofluorescent analysis of (4% PFA) fixed etoposide treated HT-29 cells using CoraLite® Plus 488 Phospho-P53 (Ser46) antibody (CL488-67900, Clone: 1D10A12) at dilution of 1:200.