For Research Use Only

CoraLite®555-conjugated Phospho-P53 (Ser15) Recombinant antibody

Catalog Number:CL555-80195

proteintech®
Antibodies | ELISA kits | Proteins
Uni-rAb
www.ptglab.com

Basic Information

Catalog Number:
CL555-80195

Concentration:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC003596

GeneID (NCBI):
7157

UNIPROT ID:
P04637

Full Name:
tumor protein p53

Calculated MW:
44 kDa

Observed MW:
53 kDa

Purification Method:
Protein A purification

CloneNo.:
2J21

Recommended Dilutions:
IF/ICC: 1:50-1:500
FC (Intra): 0.50 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
557 nm / 570 nm

Applications

Tested Applications:
IF/ICC, FC (Intra)

Species Specificity:
human

Positive Controls:

IF/ICC : etoposide treated HT-29 cells,

FC (Intra) : UV treated A431 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)

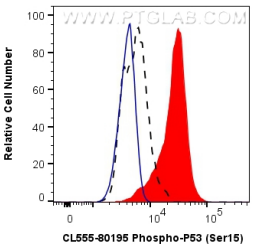
Storage

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, pH7.3
Aliquoting is unnecessary for -20°C storage

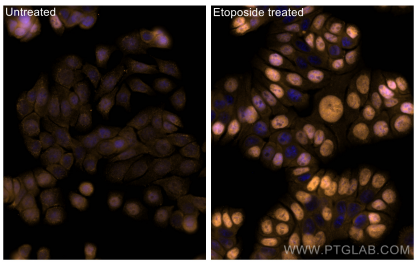
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

Selected Validation Data



1X10^6 A431 cells untreated (dashed line) or UV treated A431 cells (red) were intracellularly stained with 0.5 ug CoraLite®555 Anti-Human Phospho-P53 (Ser15) (CL555-80195, Clone:2J21), or 0.5 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®555 Phospho-P53 (Ser15) antibody (CL555-80195, Clone: 2J21) at dilution of 1:200.