For Research Use Only

Phospho-P53 (Ser15) Monoclonal antibody, PBS Only (Capture)

Catalog Number:67826-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
67826-1-PBS

Size:
100ug , Concentration: 1mg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

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.:
1H6G1

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

67826-1-PBS targets Phospho-P53 (Ser15) as part of a matched antibody pair:

MP50182-1: 67826-1-PBS capture and 60283-2-PBS detection (validated in Cytometric bead array)

MP50183-1: 67826-1-PBS capture and 67900-1-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

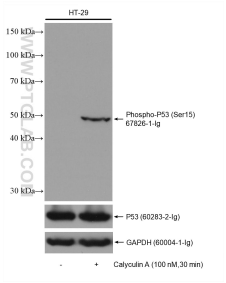
TP53, also known as P53 and NY-CO-13, belongs to the p53 family and has 9 isoforms. In SDS-Page, the observed molecular weight is about 53 kDa. TP53 acts as a tumor suppressor in many tumor types, including growth arrest or apoptosis depending on the physiological circumstances and cell types. It is involved in cell cycle regulation as a trans-activator that acts to negatively regulate cell division by controlling a set of genes required for this process. TP53 Localizes in the nucleus in most cells but found in the cytoplasm in some cells. (PMID: 26166714; PMID: 25225161)

Storage

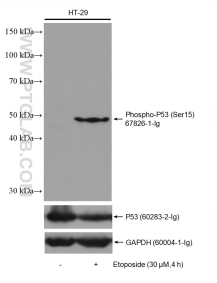
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

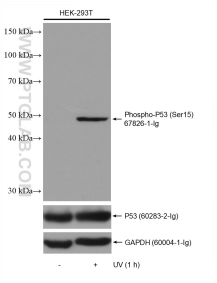
Selected Validation Data



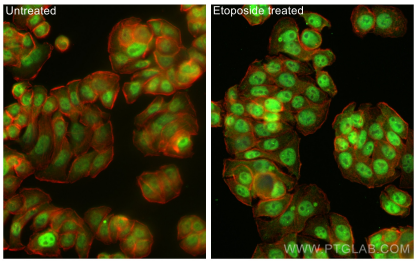
Non-treated and Calyculin A treated HT-29 cells were subjected to SDS PAGE followed by western blot with 67826-1-Ig (Phospho-P53 (Ser15) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with GAPDH and P53 antibody subsequently. This data was developed using the same antibody clone with 67826-1-PBS in a different storage buffer formulation.



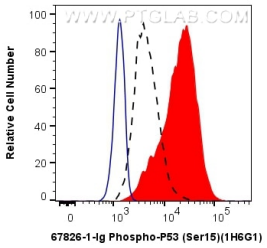
Non-treated and Etoposide treated HT-29 cells were subjected to SDS PAGE followed by western blot with 67826-1-Ig (Phospho-P53 (Ser15) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with GAPDH and P53 antibody subsequently. This data was developed using the same antibody clone with 67826-1-PBS in a different storage buffer formulation.



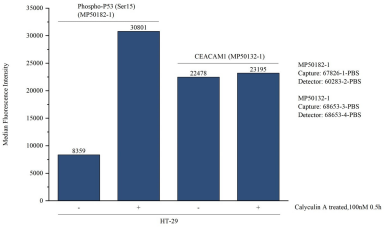
Non-treated and UV treated HEK-293T cells were subjected to SDS PAGE followed by western blot with 67826-1-Ig (Phospho-P53 (Ser15) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with GAPDH and P53 antibody subsequently. This data was developed using the same antibody clone with 67826-1-PBS in a different storage buffer formulation.



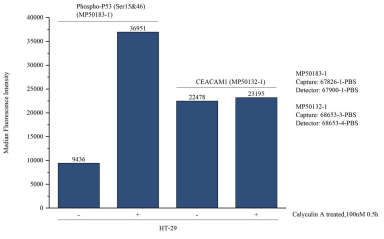
Immunofluorescent analysis of (4% PFA) fixed etoposide treated HT-29 cells using Phospho-P53 (Ser15) antibody (67826-1-Ig, Clone: 1H6G1) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red). This data was developed using the same antibody clone with 67826-1-PBS in a different storage buffer formulation.



1X10^6 HT-29 cells untreated (dashed line) or treated with UV (red) were intracellularly stained with 0.13 ug Anti-Human Phospho-P53 (Ser15) (67826-1-Ig, Clone:1H6G1) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000, or 0.13 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH. This data was developed using the same antibody clone with 67826-1-PBS in a different storage buffer formulation.



Cytometric bead array in cell lysate using MP50182-1, Phospho-P53 (Ser15) Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 67826-1-PBS. Detection antibody: 60283-2-PBS. Cell lysate: Non-treated HT-29 and Calyculin A treated HT-29 (30µg/well). Non-related target CEACAM1 Monoclonal Matched Antibody Pair (MP50132-1) was served as control.



Cytometric bead array in cell lysate using MP50183-1, Phospho-P53 (Ser15&46) Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 67826-1-PBS. Detection antibody: 67900-1-PBS. Cell lysate: Non-treated HT-29 and Calyculin A treated HT-29 (30µg/well). Non-related target CEACAM1 Monoclonal Matched Antibody Pair (MP50132-1) was served as control.