Leader in Biomolecular Solutions for Life Science

Phospho-p53-S33 Rabbit pAb

Catalog No.: AP0762

2 Publications

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Basic Information

Observed MW
55kDa

Calculated MW
44kDa

Category
Polyclonal Antibodies

Applications
WB, IP, IHC-P, ELISA

Cross Reactivity
Human, Mouse, Rat

Background

This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. Mutations in this gene are associated with a variety of human cancers, including hereditary cancers such as Li-Fraumeni syndrome. Alternative splicing of this gene and the use of alternate promoters result in multiple transcript variants and isoforms. Additional isoforms have also been shown to result from the use of alternate translation initiation codons from identical transcript variants (PMIDs: 12032546, 20937277).

Recommended Dilutions

WB 1:500 - 1:2000

IP
0.5μg-4μg antibody for 200μg-400μg extracts of whole cells

IHC-P 1:50 - 1:100

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
7157

Swiss-Prot
P04637

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
P53; BCC7; LFS1; BMFS5; TRP53; Phospho-p53-S33

Contact

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Product Information

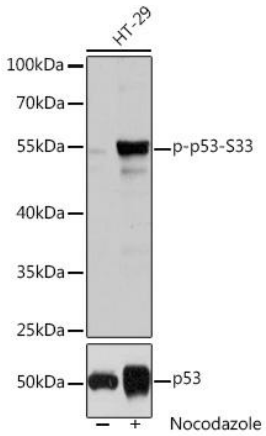
Source
Rabbit

Isotype
IgG

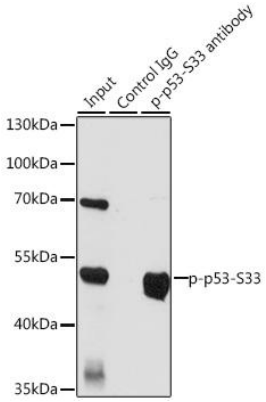
Purity
Affinity purification

Storage
Store at -20℃
Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

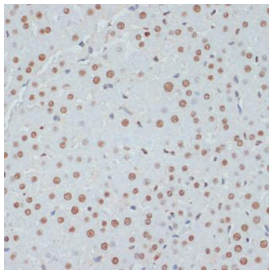
Validation Data



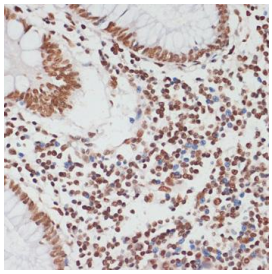
Western blot analysis of lysates from HT-29 cells using Phospho-p53-S33 Rabbit pAb (AP0762) incubated overnight at 4℃. HT-29 cells were treated with Nocodazole (100ng/mL) for 16 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% BSA.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1 s.



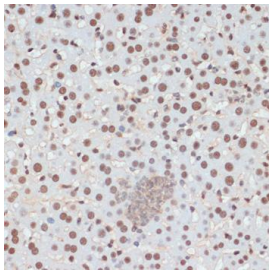
Immunoprecipitation of Phospho-p53-S33 from 200 µg extracts of HT-29 cells treated with nocodazole (100 ng/mL, 16 hours) was performed using 3 µg of Phospho-p53-S33 Rabbit pAb (AP0762) .Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Phospho-p53-S33 Rabbit pAb (AP0762) at a dilution of 1:1000.



Immunohistochemistry analysis of paraffin-embedded Rat liver using Phospho-p53-S33 Rabbit pAb (AP0762) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human colon using Phospho-p53-S33 Rabbit pAb (AP0762) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse liver using Phospho-p53-S33 Rabbit pAb (AP0762) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.