

Phospho-p53-S33 Rabbit pAb

Catalog No.: AP0762

Basic Information

Observed MW

55kDa

Calculated MW

44kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IP

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

IHC-P 1:50 - 1:100

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

Immunogen Information

Gene ID

7157

Swiss Prot

P04637

Immunogen

A synthetic phosphorylated peptide around S33 of human p53 (NP_000537.3).

Synonyms

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

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

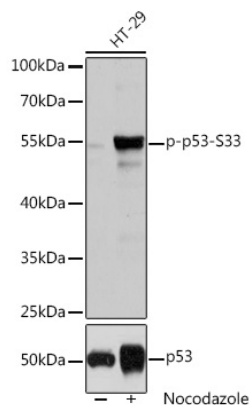
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

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 (A3185). HT-29 cells were treated by Nocodazole (100ng/mL) for 16 hours.

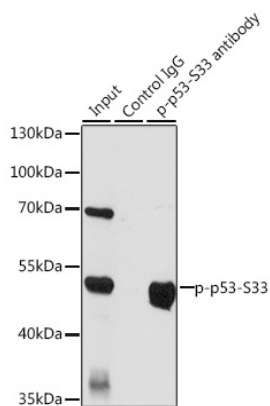
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

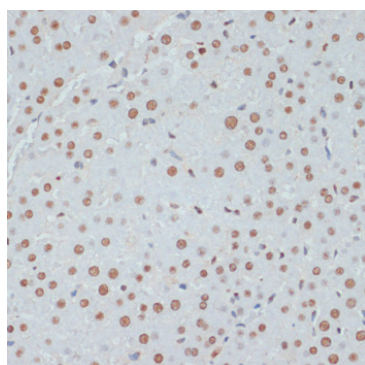
Blocking buffer: 3% BSA.

Detection: ECL Basic Kit (RM00020).

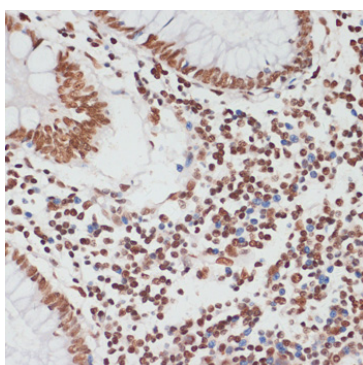
Exposure time: 1s.



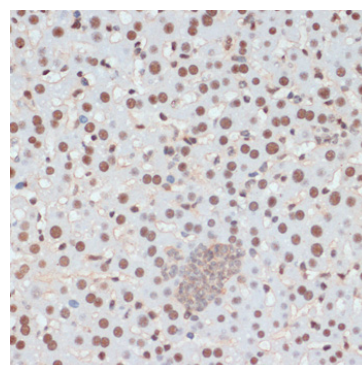
Immunoprecipitation analysis of 200 µg extracts of HT-29 cells, using 3 µg Phospho-p53-S33 pAb (AP0762). Western blot was performed from the immunoprecipitate using Phospho-p53-S33 pAb (AP0762) at a dilution of 1:1000. HT-29 cells were treated by nocodazole (100 ng/mL) at 37°C for 16 hours.



Immunohistochemistry analysis of paraffin-embedded Rat liver using Phospho-p53-S33 Rabbit pAb (AP0762) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded Human colon using Phospho-p53-S33 Rabbit pAb (AP0762) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded Mouse liver using Phospho-p53-S33 Rabbit pAb (AP0762) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.