Anti-Phospho-p53 (S20) Antibody [PSH06-86] HA722761

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 53 kDa
Clone number:	PSH06-86

Description: p53, also known as Tumor protein P53, cellular tumor antigen p53 (UniProt name), or transformation-related protein 53 (TRP53) is a regulatory protein that is often mutated in human cancers. The p53 proteins (originally thought to be, and often spoken of as, a single protein) are crucial in vertebrates, where they prevent cancer formation. As such, p53 has been described as "the guardian of the genome" because of its role in conserving stability by preventing genome mutation. Hence TP53 is classified as a tumor suppressor gene. The TP53 gene is the most frequently mutated gene (>50%) in human cancer, indicating that the TP53 gene plays a crucial role in preventing cancer formation. TP53 gene encodes proteins that bind to DNA and regulate gene expression to prevent mutations of the genome. In addition to the full-length protein, the human TP53 gene encodes at least 12 protein isoforms.

Immunogen: Synthetic phospho-peptide corresponding to residues surrounding Ser20 of Human p53 aa 1-50 / 393.

Positive control: HT-29 treated with UV then add 100nM Calyculin A for 30 minutes cell lysate.

Subcellular location: Cytoplasm, Nucleus, PML body, Endoplasmic reticulum, Mitochondrion matrix, cytoskeleton, microtubule organizing center, centrosome.

Database links: SwissProt: P04637 Human

Recommended Dilutions:

WB	1:2,000

Storage Buffer: 1*TBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

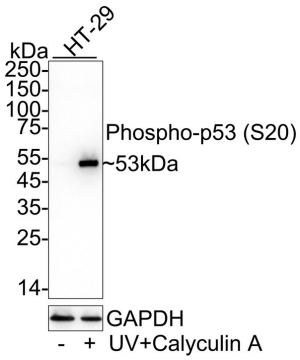

Fig1: Western blot analysis of Phospho-p53 (S20) on different lysates with Rabbit anti-Phospho-p53 (S20) antibody (HA722761) at 1/1,000 dilution.

Lane 1: HT-29 cell lysate
Lane 2: HT-29 treated with UV then add 100nM Calyculin A for 30 minutes cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 53 kDa
Observed band size: 53 kDa

Exposure time: 59 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722761) at 1/1,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Background References

1. Hassin O et al. Drugging p53 in cancer: one protein, many targets. Nat Rev Drug Discov. 2023 Feb
2. Hu J et al. Targeting mutant p53 for cancer therapy: direct and indirect strategies. J Hematol Oncol. 2021 Sep