Anti-Phospho-p53 (S376) Antibody [ST0440]

ET1609-14

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB
Molecular Wt:	Predicted band size: 53 kDa
Clone number:	ST0440

Description: p53, a DNA-binding, oligomerization domain- and transcription activation domain-containing tumor suppressor, upregulates growth arrest and apoptosis-related genes in response to stress signals, thereby influencing programmed cell death, cell differentiation, and cell cycle control mechanisms. p53 localizes to the nucleus, yet can be chaperoned to the cytoplasm by the negative regulator, MDM2. MDM2 is an E3 ubiquitin ligase that is upregulated in the presence of active p53, where it poly-ubiquitinates p53 for proteasome targeting. p53 fluctuates between latent and active DNA-binding conformations and is differentially activated through posttranslational modifications, including phosphorylation and acetylation. Mutations in the DNA-binding domain (DBD) of p53, amino acids 110-286, can compromise energetically-favorable association with cis elements and are implicated in several human cancers.

Immunogen: Synthetic phospho-peptide corresponding to residues surrounding Ser376 of Human p53 aa 344-393 / 393.

Positive control: HEK-293 treated with 200nM Calyculin A and 1uM Okadaic Acid for 1 hours whole cell lysate, RAW264.7 treated with 200nM Calyculin A and 1uM Okadaic Acid for 1 hours whole cell lysate.

Subcellular location: Cytoplasm, Nucleus, Endoplasmic reticulum, Mitochondrion matrix.

Database links: SwissProt: P04637 Human

Recommended Dilutions:

WB	1:1,000

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

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

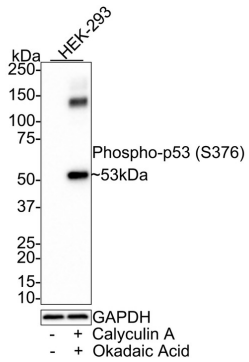

Fig1: Western blot analysis of Phospho-p53 (S376) on different lysates with Rabbit anti-Phospho-p53 (S376) antibody (ET1609-14) at 1/1,000 dilution.

Lane 1: HEK-293 whole cell lysate
Lane 2: HEK-293 treated with 200nM Calyculin A and 1uM Okadaic Acid for 1 hours whole cell lysate

Lysates/proteins at 20 µg/Lane.

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

Exposure time: 2 minutes;

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 (ET1609-14) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

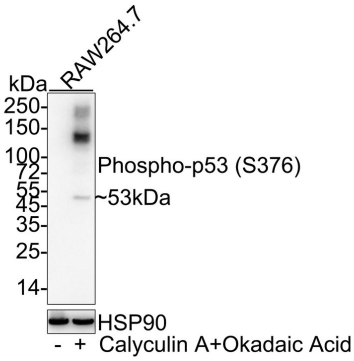

Fig2: Western blot analysis of Phospho-p53 (S376) on different lysates with Rabbit anti-Phospho-p53 (S376) antibody (ET1609-14) at 1/1,000 dilution.

Lane 1: RAW264.7 whole cell lysate
Lane 2: RAW264.7 treated with 200nM Calyculin A and 1uM Okadaic Acid for 1 hours whole cell lysate

Lysates/proteins at 20 µg/Lane.

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

Exposure time: 1 minute 2 seconds;

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 (ET1609-14) 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. Ambade A et al. Alcoholic hepatitis accelerates early hepatobiliary cancer by increasing stemness and miR-122-mediated HIF-1a activation. Sci Rep 6:21340 (2016).
2. Yang K et al. Effect of PLCe gene silencing on inhibiting the cancerous transformation of ulcerative colitis. Exp Ther Med 12:422-426 (2016).