**Product Name:** **KO-Validated p53 (Acetyl K382) Recombinant Rabbit Monoclonal Antibody**
**Catalog #:** **KVAb00095**
For research use only.

## Summary

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|---|---|
| **Description** | KO&KD-Validated antibody |
| **Host** | Rabbit |
| **Application** | WB,FCM,ICC |
| **Reactivity** | Human |
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | Rabbit IgG |
| **Clonality** | Rabbit mAb |
| **Form** | Liquid |
| **Storage** | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| **Shipping** | Ice bags |
| **Buffer** | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide. |
| **Purification** | Affinity purification |

## Application

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|---|---|
| **Dilution Ratio** | WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000 |
| **Molecular Weight** | Calculated MW: 43.7kDa |

## Antigen Information

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|---|---|
| **Gene Name** | TP53 |
| **Alternative Names** | TP53; Tumor Protein P53; P53; LFS1; Cellular Tumor Antigen P53; Phosphoprotein P53; Antigen NY-CO-13; Transformation-Related Protein 53; Mutant Tumor Protein 53; Li-Fraumeni Syndrome; Tumor Suppressor P53; Tumor Supressor P53; Tumor Protein 53; BMFS5; TRP53; BCC7 |
| **Gene ID** | 7157.0 |
| **SwissProt ID** | P04637 |
| **Immunogen** | A synthesized peptide derived from human p53 (acetyl K382) |

## Background

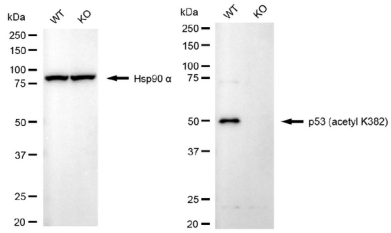
This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization

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). [provided by RefSeq, Dec 2016]

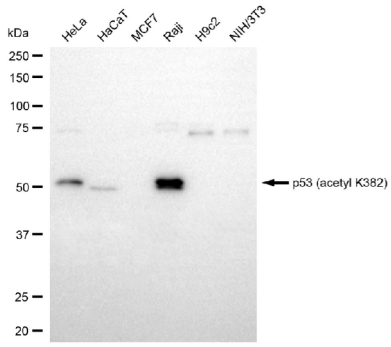
## Research Area

Cell Biology,Epigenetics and Nuclear Signaling,Cancer,Neuroscience

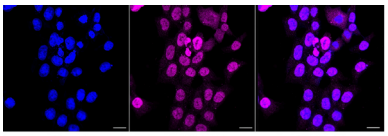
## Image Data



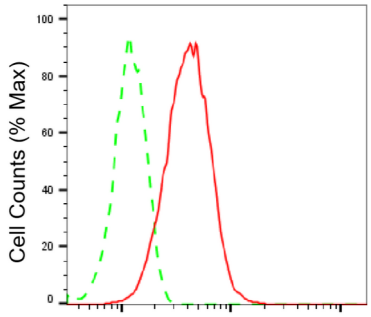

Western blotting analysis using p53 (acetyl K382) antibody (KVAb00095). P53 (acetyl K382) expression in wild type (WT) and TP53 knockout (KO) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with p53 (acetyl K382) antibody (KVAb00095, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.




Western blotting analysis using p53 (acetyl K382) antibody (KVAb00095). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with p53 (acetyl K382) antibody (KVAb00095, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with P53 (acetyl K382) antibody (KVAb00095, 1:1,000). Nuclei were stained blue with DAPI; P53 (acetyl K382) was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.




Flow cytometric analysis of p53 (acetyl K382) expression in HAP-1 cells using p53 (acetyl K382) antibody (KVAb00095, 1:2,000). Green, isotype control; red, p53 (acetyl K382).