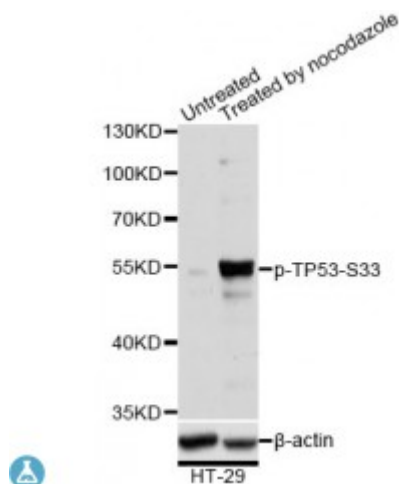


Anti-Phospho-TP53-(S33) Antibody



Description

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).

Model	STJ116382
Host	Rabbit
Reactivity	Human
Applications	IP, WB
Immunogen	A synthetic phosphorylated peptide around S33 of human TP53 (NP_000537.3).
Gene ID	7157
Gene Symbol	TP53
Dilution range	WB 1:500 - 1:2000 IP 1:50 - 1:100
Tissue Specificity	Ubiquitous, Isoforms are expressed in a wide range of normal tissues but in a tissue-dependent manner, Isoform 2 is expressed in most normal tissues but is not detected in brain, lung, prostate, muscle, fetal brain, spinal cord and fetal

liver, Isoform 3 is expressed in most normal tissues but is not detected in lung, spleen, testis, fetal brain, spinal cord and fetal liver, Isoform 7 is expressed in most normal tissues but is not detected in prostate, uterus, skeletal muscle and breast, Isoform 8 is detected

Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Cellular tumor antigen p53 Antigen NY-CO-13 Phosphoprotein p53 Tumor suppressor p53
Molecular Weight	43.653 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:11998OMIM:133239Reactome:R-HSA-111448
Alternative Names	Cellular tumor antigen p53 Antigen NY-CO-13 Phosphoprotein p53 Tumor suppressor p53
Function	Acts as a tumor suppressor in many tumor types
Cellular Localization	Cytoplasm, Nucleus, Nucleus, PML body, Endoplasmic reticulum, Mitochondrion matrix, Cytoplasm
Post-translational Modifications	Acetylated, Acetylation of Lys-382 by CREBBP enhances transcriptional activity, Deacetylation of Lys-382 by SIRT1 impairs its ability to induce proapoptotic program and modulate cell senescence, Deacetylation by SIRT2 impairs its ability to induce transcription activation in a AKT-dependent manner,