



Phospho-TP53 (S392) Recombinant Monoclonal Antibody

Product Code	CSB-RA024077A392phHU
Abbreviation	Cellular tumor antigen p53
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P04637
Immunogen	A synthesized peptide derived from Human Phospho-TP53 (S392)
Species Reactivity	Human
Tested Applications	ELISA, WB; Recommended dilution: WB:1:500-1:5000
Relevance	Acts as a tumor suppressor in many tumor types; induces growth arrest or apoptosis depending on the physiological circumstances and cell type. Involved in cell cycle regulation as a trans-activator that acts to negatively regulate cell division by controlling a set of genes required for this process. One of the activated genes is an inhibitor of cyclin-dependent kinases. Apoptosis induction seems to be mediated either by stimulation of BAX and FAS antigen expression, or by repression of Bcl-2 expression. In cooperation with mitochondrial PPIF is involved in activating oxidative stress-induced necrosis; the function is largely independent of transcription. Induces the transcription of long intergenic non-coding RNA p21 (lincRNA-p21) and lincRNA-Mkln1. LincRNA-p21 participates in TP53-dependent transcriptional repression leading to apoptosis and seem to have to effect on cell-cycle regulation. Implicated in Notch signaling cross-over. Prevents CDK7 kinase activity when associated to CAK complex in response to DNA damage, thus stopping cell cycle progression. Isoform 2 enhances the transactivation activity of isoform 1 from some but not all TP53-inducible promoters. Isoform 4 suppresses transactivation activity and impairs growth suppression mediated by isoform 1. Isoform 7 inhibits isoform 1-mediated apoptosis. Regulates the circadian clock by repressing CLOCK-ARNTL/BMAL1-mediated transcriptional activation of PER2 (PubMed:24051492).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Antigen NY-CO-13 antibody; BCC7 antibody; Cellular tumor antigen p53 antibody; FLJ92943 antibody; LFS1 antibody; Mutant tumor protein 53 antibody; p53 antibody; p53 tumor suppressor antibody; P53_HUMAN antibody; Phosphoprotein p53 antibody; Tp53 antibody; Transformation related protein 53 antibody; TRP53 antibody; tumor antigen p55 antibody; Tumor protein 53



antibody; Tumor protein p53 antibody; Tumor suppressor p53 antibody

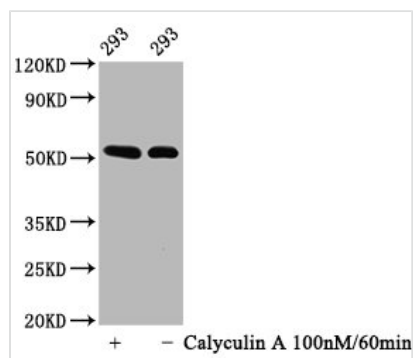
Immunogen Species Homo sapiens (Human)

Research Area Cell Biology

Gene Names TP53

Clone No. 3F5

Image



Western Blot

Positive WB detected in: 293 whole cell lysate(treated with Calyculin A or not)

All lanes: Phospho-TP53 antibody at 0.64μg/ml
Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 53 KDa

Observed band size: 53 KDa

Description

To create the phospho-TP53 (S392) recombinant monoclonal antibody, the process initiates with the isolation of genes responsible for coding this antibody from rabbits that have been previously exposed to a synthesized peptide originating from the human TP53 protein phosphorylated at S392. These antibody genes are then meticulously integrated into specialized expression vectors. Following this genetic modification, the vectors are thoughtfully introduced into host suspension cells, which are diligently cultivated to encourage the production and secretion of antibodies. After this cultivation phase, the phospho-TP53 (S392) recombinant monoclonal antibody undergoes a rigorous purification process using affinity chromatography techniques, effectively separating the antibody from the surrounding cell culture supernatant. Finally, the functionality of the antibody is comprehensively assessed through a battery of tests, including ELISA and WB, conclusively confirming its capability to interact effectively with the human TP53 protein phosphorylated at S392.