

p53 Rabbit mAb

Catalog No: #48719



Package Size: #48719-1 50ul #48719-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

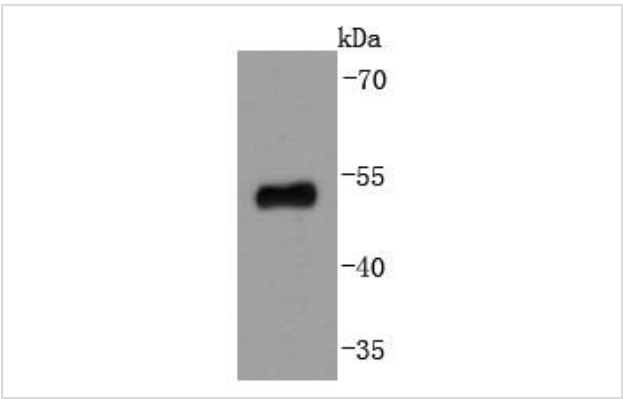
Description

Product Name	p53 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SY010-6
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	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 protein 53 antibody Tumor protein p53 antibody Tumor suppressor p53 antibody
Accession No.	Swiss-Prot#:P04637
Calculated MW	53 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

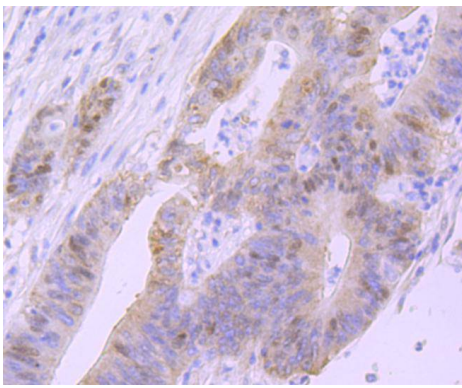
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200ICC: 1:50-1:200

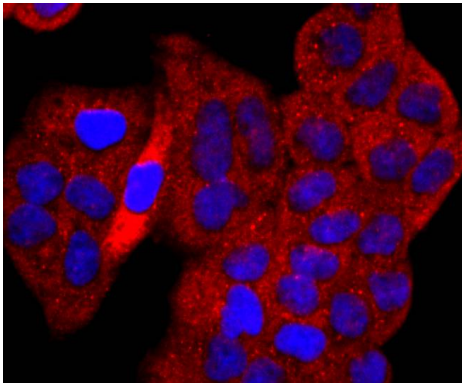
Images



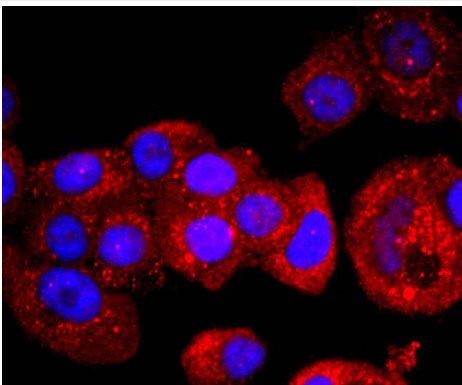
Western blot analysis of p53 on 293 cells lysates using anti-p53 antibody at 1/1,000 dilution.



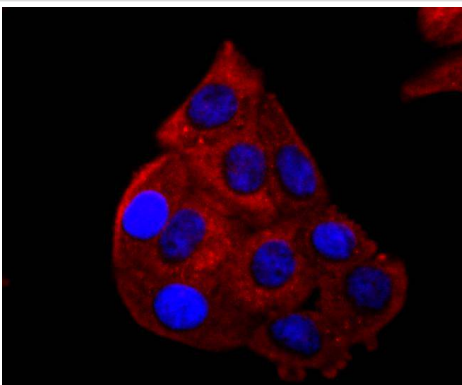
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-p53 antibody. Counter stained with hematoxylin.



ICC staining p53 in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining p53 in MCF-7 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining p53 in HepG2 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

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.

References

1. Yang K et al. Effect of PLCe gene silencing on inhibiting the cancerous transformation of ulcerative colitis. *Exp Ther Med* 12:422-426 (2016).
2. 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).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.