

p53 Rabbit mAb

Catalog No: #52483



Package Size: #52483-1 50ul #52483-2 100ul

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

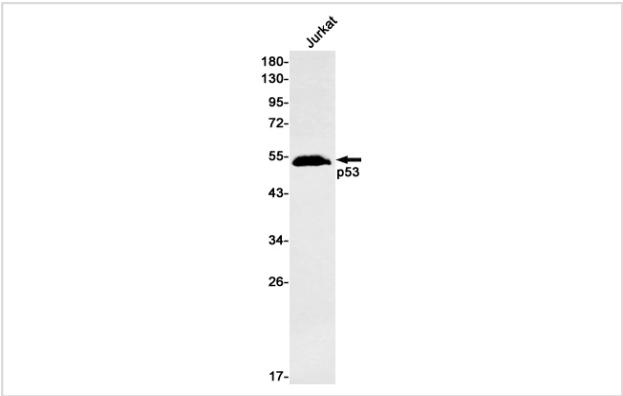
Description

| | |
|-----------------------|--|
| Product Name | p53 Rabbit mAb |
| Host Species | Recombinant Rabbit |
| Clonality | Monoclonal antibody |
| Clone No. | S07-6A7 |
| Isotype | Rabbit IgG |
| Purification | Affinity Purified |
| Applications | WB IF |
| Species Reactivity | Human |
| Immunogen Description | Recombinant protein of human p53 |
| Conjugates | Unconjugated |
| Modification | Unmodification |
| Other Names | P53; BCC7; LFS1; TRP53 |
| Accession No. | Swiss-Prot:P04637GenelD:7157 |
| Uniprot | P04637 |
| GenelD | 7157 |
| Calculated MW | Calculated MW: 44 kDa; Observed MW: 53 kDa |
| Concentration | 0.3 mg/ml |
| Formulation | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA |
| Storage | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |

Application Details

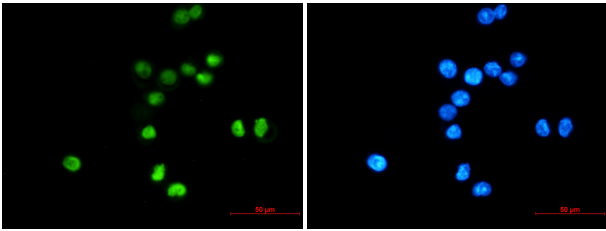
WB: 1/1000; ICC/IF: 1/50

Images



Western blot detection of p53 in Jurkat cell lysates using p53 Rabbit mAb(1:500 diluted).Predicted band size:44kDa.Observed band size:53kDa.

Immunofluorescence of p53 (green) in MCF-7 using p53 antibody at dilution 1/20, and DAPI(blue)



Background

Swiss-Prot Acc.P04637. 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-Mkl1. LincRNA-p21 participates in TP53-dependent transcriptional repression leading to apoptosis and seems to have an 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).

Note: This product is for in vitro research use only