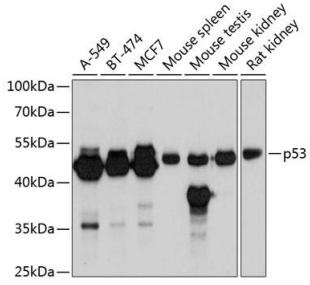
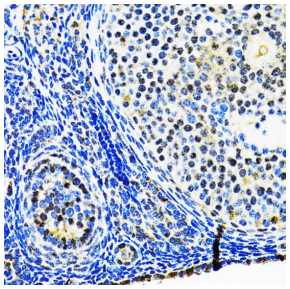
Product Data Sheet: P53

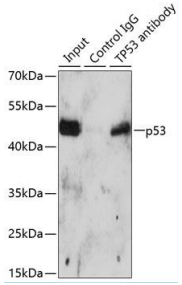
Cat. No:	AB-83528
Size:	100 ug
Clone:	POLY
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human p53.
Reactivity:	Hu, Ms, Rt
Applications:	Western Blot: 1:3000 – 1:6000 Immunohistochemistry: 1:50 – 1:200 Immunoprecipitation: 1:20 – 1:50 ChIP: 1:20 – 1:50
Molecular Weight:	53kDa
Purification:	Aff. Pur.
Background:	This gene encodes tumor protein p53, which responds to diverse cellular stresses to regulate target genes that induce cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. p53 protein is expressed at low level in normal cells and at a high level in a variety of transformed cell lines, where it's believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing transcription activation, DNA-binding, and oligomerization domains. It is postulated to bind to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasion, and thus function as a tumor suppressor. Mice deficient for this gene are developmentally normal but are susceptible to spontaneous tumors. Evidence to date shows that this gene contains one promoter, in contrast to alternative promoters of the human gene, and transcribes a few of splice variants which encode different isoforms, although the biological validity or the full-length nature of some variants has not been determined.
Form:	Liquid
Buffer:	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Storage:	Store at –20°C. Avoid Freeze and Thaw cycles.



Western blot analysis of extracts of various cell lines, using p53 antibody at 1:6000 dilution.

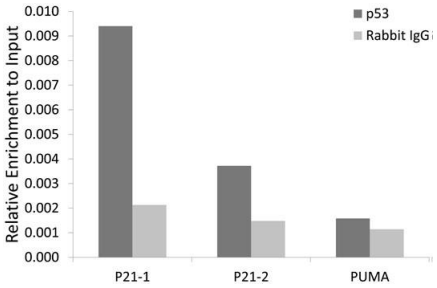


Immunohistochemistry of paraffin embedded
embedded rat ovary using p53 antibody



Immunoprecipitation analysis of 150ug extracts of A549 cells using 3ug p53 antibody.

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL West Pico Plus.
Exposure time: 15s.



Chromatin immunoprecipitation analysis of extracts of 293T cells, using p53 antibody and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

at dilution of 1:100 (40x lens).

Western blot was performed from the immunoprecipitate using p53 antibod at a dilition of 1:500.

References

References for p53 Rabbit pAb
Product:p53 Rabbit pAb
Journal:Cell Death & Disease
Application:WB
IF:5.964
Species:Homo sapiens,Mus musculus
PMID:27031958
Title:Nupr1/Chop signal axis is involved in mitochondrion-related endothelial cell apoptosis induced by methamphetamine

References for p53 Rabbit pAb
Product:p53 Rabbit pAb
Journal:Oncology reports
Application:WB
IF:2.662
Species:Homo sapiens
PMID:28035403
Title:Propofol induces proliferation partially via downregulation of p53 protein and promotes migration via activation of the Nrf2 pathway in human breast cancer cell line MDA-MB-231

References for p53 Rabbit pAb
Product:p53 Rabbit pAb
Journal:Scientific reports
Application:WB
IF:4.258
Species:Homo sapiens
PMID:27909289
Title:Hyperthermia enhances 17-DMAG efficacy in hepatocellular carcinoma cells with aggravated DNA damage and impaired G2/M transition

References for p53 Rabbit pAb
Product:p53 Rabbit pAb
Journal:Toxicology letters
Application:WB
IF:3.857
Species:Homo sapiens
PMID:29241733
Title:Autophagy regulates high concentrations of iodide-induced apoptosis in SH-SY5Y cells

References for p53 Rabbit pAb
Product:p53 Rabbit pAb
Journal:Oncotarget
Application:WB
IF:5.168
Species:Homo sapiens
PMID:29535821
Title:NVP-BEZ235 synergizes cisplatin sensitivity in osteosarcoma

References for p53 Rabbit pAb
Product:p53 Rabbit pAb
Journal:Cell death & disease
Application:WB
IF:5.63
Species:Homo sapiens
PMID:30718471
Title:Stress-induced precocious aging in PD-patient iPSC-derived NSCs may underlie the pathophysiology of Parkinson’s disease.

References for p53 Rabbit pAb
Product:p53 Rabbit pAb
Journal:Connective Tissue Research
Application:WB
IF:2.16
Species:Rattus norvegicus
PMID:31294637
Title:Naringin alleviates H2O2-induced apoptosis via the PI3K/Akt pathway in rat nucleus pulposus-derived mesenchymal stem cells

References for p53 Rabbit pAb
Product:p53 Rabbit pAb
Journal:Frontiers in Cellular Neuroscience
Application:IF
IF:3.9
Species:Lampetra japonica
PMID:32265663
Title:PTPσ Knockdown in Lampreys Impairs Reticulospinal Axon Regeneration and Neuronal Survival After Spinal Cord Injury

References for p53 Rabbit pAb
Product:p53 Rabbit pAb
Journal:Frontiers in Cellular Neuroscience
Application:WB
IF:3.9
Species:Lampetra japonica
PMID:32265663
Title:PTPσ Knockdown in Lampreys Impairs Reticulospinal Axon Regeneration and Neuronal Survival After Spinal Cord Injury

References for p53 Rabbit pAb

Product:p53 Rabbit pAb
Journal:Nature
Application:WB
IF:43.07
Species:Homo sapiens,Mus musculus
PMID:32238924
Title:U1 snRNP regulates chromatin retention of noncoding RNAs

References for p53 Rabbit pAb
Product:p53 Rabbit pAb
Journal:Molecular Medicine
Application:WB
IF:2.991
Species:Homo sapiens,Mus musculus
PMID:31521106
Title:PRSS1 mutation: a possible pathomechanism of pancreatic carcinogenesis and pancreatic cancer.