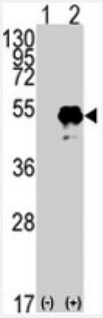
# TP53 polyclonal antibody

Catalog # PAB4846 Size 400 uL

## Applications




### Western Blot (Transfected lysate)

Western blot analysis of TP53 (arrow) using rabbit TP53 polyclonal antibody (Cat # PAB4846). 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the TP53 gene (Lane 2) (Origene Technologies).

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of TP53. |
| **Immunogen** | A synthetic peptide (conjugated with KLH) corresponding to residues surrounding T55 of human TP53. |
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Protein A purification |
| **Recommend Usage** | ELISA (1:1000)<br>Western Blot (1:50-100)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (0.09% sodium azide) |
| **Storage Instruction** | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |

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| | |
|---|---|
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Transfected lysate)

  Western blot analysis of TP53 (arrow) using rabbit TP53 polyclonal antibody (Cat # PAB4846). 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the TP53 gene (Lane 2) (Origene Technologies).

## Gene Info — TP53

| | |
|---|---|
| **Entrez GeneID** | 7157 |
| **Protein Accession#** | NP_000537;P04637 |
| **Gene Name** | TP53 |
| **Gene Alias** | FLJ92943, LFS1, TRP53, p53 |
| **Gene Description** | tumor protein p53 |
| **Omim ID** | 114480 114500 114550 151623 161550 191170 202300 260350 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes tumor protein p53, which responds to diverse cellular stresses to regulate targ et genes that induce cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metaboli sm. p53 protein is expressed at low level in normal cells and at a high level in a variety of transfor med cell lines, where it's believed to contribute to transformation and malignancy. p53 is a DNA-b inding 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. Mutants of p53 that frequently oc cur in a number of different human cancers fail to bind the consensus DNA binding site, and henc e cause the loss of tumor suppressor activity. Alterations of this gene occur not only as somatic m utations in human malignancies, but also as germline mutations in some cancer-prone families wit h Li-Fraumeni syndrome. Multiple p53 variants due to alternative promoters and multiple alternativ e splicing have been found. These variants encode distinct isoforms, which can regulate p53 tran scriptional activity. [provided by RefSeq |
| **Other Designations** | p53 antigen\|p53 transformation suppressor\|p53 tumor suppressor\|phosphoprotein p53\|transform ation-related protein 53 |

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## Publication Reference

- Both BC-box motifs of adenovirus protein E4orf6 are required to efficiently assemble an E3 ligase complex that degrades p53.

  Blanchette P, Cheng CY, Yan Q, Ketner G, Ornelles DA, Dobner T, Conaway RC, Conaway JW, Branton PE.

  Molecular and Cellular Biology 2004 Nov; 24(21):9619.

- Identification of SCN3B as a novel p53-inducible proapoptotic gene.

  Adachi K, Toyota M, Sasaki Y, Yamashita T, Ishida S, Ohe-Toyota M, Maruyama R, Hinoda Y, Saito T, Imai K, Kudo R, Tokino T.

  Oncogene 2004 Oct; 23(47):7791.

- Repression of hsp90beta gene by p53 in UV irradiation-induced apoptosis of Jurkat cells.

  Zhang Y, Wang JS, Chen LL, Zhang Y, Cheng XK, Heng FY, Wu NH, Shen YF.

  The Journal of Biological Chemistry 2004 Jul; 279(41):42545.

## Pathway

- Amyotrophic lateral sclerosis (ALS)
- Apoptosis
- Basal cell carcinoma
- Bladder cancer
- Cell cycle
- Chronic myeloid leukemia
- Colorectal cancer
- Endometrial cancer
- Glioma
- MAPK signaling pathway
- Melanoma
- Neurotrophin signaling pathway

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- Non-small cell lung cancer

- p53 signaling pathway
- Pancreatic cancer
- Pathways in cancer
- Prostate cancer
- Small cell lung cancer
- Thyroid cancer
- Wnt signaling pathway

## Disease

- Abortion
- Acquired Hyperostosis Syndrome
- Acute Disease
- Adenocarcinoma
- Adenoma
- Adenomatous Polyposis Coli
- Adrenal Cortex Neoplasms
- Albuminuria
- Alcoholism
- Alzheimer disease
- Ameloblastoma
- Aneuploidy
- Anoxia
- Anus Neoplasms
- Arsenic Poisoning

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- Arthritis
- Astrocytoma
- Ataxia telangiectasia
- Atherosclerosis
- Autoimmune Diseases
- Azoospermia
- Balkan Nephropathy
- Barrett Esophagus
- Bipolar Disorder
- Bone Neoplasms
- Brain Infarction
- Brain Injuries
- Brain Ischemia
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Carcinoma in Situ
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Artery Thrombosis
- Cell Transformation
- Cerebellar Neoplasms
- Cerebral Infarction
- Cervical Intraepithelial Neoplasia
- Chagas Disease

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- Cholecystitis
- Choriocarcinoma
- Choroid Plexus Neoplasms
- Chromosomal Instability
- Chromosome Aberrations
- Chromosome Deletion
- Chronic Disease
- Cicatrix
- Cocarcinogenesis
- Cognition Disorders
- Colitis
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Condylomata Acuminata
- Conjunctival Neoplasms
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Craniocerebral Trauma
- Crohn Disease
- Cystadenocarcinoma
- Delayed Graft Function
- Depressive Disorder
- Diabetes Mellitus

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- Diabetic Nephropathies
- Digestive System Neoplasms
- Disease Progression
- Disease Susceptibility
- DNA Damage
- Down Syndrome
- Duodenal Ulcer
- Edema
- Ehlers-Danlos Syndrome
- Endometrial Hyperplasia
- Endometrial Neoplasms
- Endometriosis
- Epidermodysplasia Verruciformis
- Epstein-Barr Virus Infections
- Esophageal Neoplasms
- Fallopian Tube Neoplasms
- Gallbladder Neoplasms
- Ganglioglioma
- Gastritis
- Gastroesophageal Reflux
- Gastrointestinal Neoplasms
- Gastrointestinal Stromal Tumors
- Genetic Diseases
- Genetic Predisposition to Disease
- Genital Neoplasms
- Genomic Instability

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- Glaucoma
- Glioblastoma
- Glioma
- Graft Occlusion
- Graves Disease
- Hashimoto Disease
- Head and Neck Neoplasms
- Helicobacter Infections
- Hematologic Diseases
- Hepatitis B
- Hepatitis C
- Herpes Simplex
- HIV Infections
- Hodgkin Disease
- Hydatidiform Mole
- Hypopharyngeal Neoplasms
- Hypotension
- Infertility
- Inflammation
- Inflammatory Bowel Diseases
- Intestinal Neoplasms
- Intracranial Thrombosis
- Keloid
- Keratosis
- Kidney Failure
- Kidney Neoplasms

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- Laryngeal Neoplasms
- Leber hereditary optic neuropathy
- Leiomyoma
- Leukemia
- Leukoplakia
- Lichen Planus
- Li-Fraumeni Syndrome
- Lissencephaly
- Liver Cirrhosis
- Liver Neoplasms
- Low Tension Glaucoma
- Lung Neoplasms
- Lupus Erythematosus
- Lupus Nephritis
- Lymphatic Metastasis
- Lymphoma
- Lymphoproliferative Disorders
- Malignant melanoma
- Medulloblastoma
- Melanoma
- Meningeal Neoplasms
- Meningioma
- Mental Retardation
- Metaplasia
- Microsatellite Instability
- Mouth Neoplasms

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- Multiple Myeloma
- Multiple Sclerosis
- Myelodysplastic Syndromes
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Nerve Sheath Neoplasms
- Neural Tube Defects
- Neurilemmoma
- Neuroectodermal Tumors
- Neurofibroma
- Neurofibromatosis
- Neurofibromatosis 2
- Neuroma
- Neuropsychological Tests
- Neutropenia
- Nijmegen Breakage Syndrome
- Nose Neoplasms
- Obesity
- Occupational Diseases
- Ocular Hypertension
- Oligodendroglioma
- Oligospermia
- Optic Atrophy

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- Oral Submucous Fibrosis
- Oropharyngeal Neoplasms
- Osteoarthritis
- Osteosarcoma
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Papilloma
- Papillomavirus Infections
- Pemphigus
- Penile Neoplasms
- Peptic Ulcer
- Peritoneal Neoplasms
- Pharyngeal Neoplasms
- Postoperative Complications
- Precancerous Conditions
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Intraepithelial Neoplasia
- Prostatic Neoplasms
- Psoriasis
- Pterygium
- Pulmonary Disease
- Pulmonary Fibrosis
- Radiation Injuries

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- Radiodermatitis
- Rectal Neoplasms
- Recurrence
- Roseolovirus Infections
- Sarcoma
- Schizophrenia
- Skin Diseases
- Skin Neoplasms
- Small Cell Lung Carcinoma
- Spinal Dysraphism
- Stomach Neoplasms
- Stomach Ulcer
- Subarachnoid Hemorrhage
- Substance-Related Disorders
- Sunburn
- The p53 tumor suppressor protein
- Thyroid Diseases
- Thyroid Neoplasms
- Thyroiditis
- Tobacco Use Disorder
- Tongue Neoplasms
- Tumor Virus Infections
- Uremia
- Urinary Bladder Neoplasms
- Urologic Diseases

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- Uterine Cervical Diseases
- Uterine Cervical Dysplasia
- Uterine Cervical Neoplasms
- Uterine Neoplasms
- Waldenstrom Macroglobulinemia
- Wegener Granulomatosis
- Werner syndrome

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