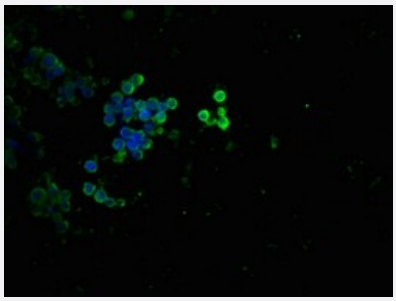
RecomAb™ Sm Size

TP53 (phospho T55) recombinant monoclonal antibody, clone 3C3

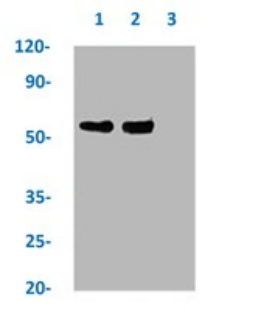
Catalog # RAB08009 Size 50 uL

Applications



Immunofluorescence

Immunofluorescent staining of 293 cells (treated with Calyculin A 50 mM/30 mins) with TP53 (phospho T55) recombinant monoclonal antibody (diluated at 1:100). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).



Western Blot

Western blot analysis of
Lane 1: 293 whole cell lysate (treated with Calyculin A 100 nM/60 mins),
Lane 2: 293 whole cell lysate (treated with Pervanadate) and
Lane 3: 293 whole cell lysate (not treated) with TP53 (phospho T55) recombinant monoclonal antibody.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human TP53.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g T55 of human TP53.
Theoretical MW (kDa)	Calculated MW: 53 kD
Reactivity	Human
Form	Liquid

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Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunofluorescence

  Immunofluorescent staining of 293 cells (treated with Calyculin A 50 mM/30 mins) with TP53 (phospho T55) recombinant monoclonal antibody (diluated at 1:100). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western blot analysis of
  Lane 1: 293 whole cell lysate (treated with Calyculin A 100 nM/60 mins),
  Lane 2: 293 whole cell lysate (treated with Pervanadate) and
  Lane 3: 293 whole cell lysate (not treated) with TP53 (phospho T55) recombinant monoclonal antibody.

Gene Info — TP53

Entrez GeneID	7157
Protein Accession#	P04637
Gene Name	TP53
Gene Alias	FLJ92943, LFS1, TRP53, p53
Gene Description	tumor protein p53

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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 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. Mutants of p53 that frequently occur in a number of different human cancers fail to bind the consensus DNA binding site, and hence cause the loss of tumor suppressor activity. Alterations of this gene occur not only as somatic mutations in human malignancies, but also as germline mutations in some cancer-prone families with Li-Fraumeni syndrome. Multiple p53 variants due to alternative promoters and multiple alternative splicing have been found. These variants encode distinct isoforms, which can regulate p53 transcriptional activity. [provided by RefSeq
Other Designations	p53 antigen|p53 transformation suppressor|p53 tumor suppressor|phosphoprotein p53|transformation-related protein 53

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
- Non-small cell lung cancer
- p53 signaling pathway

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- 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
- Arthritis
- Astrocytoma
- Ataxia telangiectasia

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- 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
- Cholecystitis
- Choriocarcinoma
- Choroid Plexus Neoplasms

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- 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
- Diabetic Nephropathies
- Digestive System Neoplasms
- Disease Progression

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- 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
- Glaucoma
- Glioblastoma
- Glioma

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- 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
- Laryngeal Neoplasms
- Leber hereditary optic neuropathy

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- 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
- Multiple Myeloma
- Multiple Sclerosis
- Myelodysplastic Syndromes

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- 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
- Oral Submucous Fibrosis
- Oropharyngeal Neoplasms
- Osteoarthritis

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- 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
- Radiodermatitis
- Rectal Neoplasms
- Recurrence

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- 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
- Uterine Cervical Diseases
- Uterine Cervical Dysplasia
- Uterine Cervical Neoplasms
- Uterine Neoplasms

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- Waldenstrom Macroglobulinemia
- Wegener Granulomatosis
- Werner syndrome

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