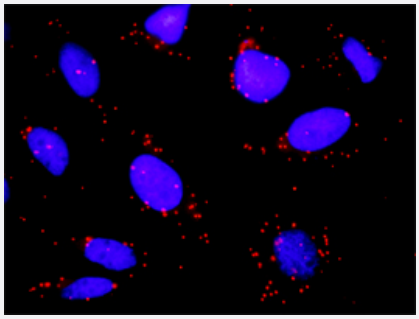
TP53 & FOXO3 Protein Protein Interaction Antibody Pair

Catalog # DI0231 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between TP53 and FOXO3. HeLa cells were stained with anti-TP53 rabbit purified polyclonal antibody 1:1200 and anti-FOXO3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Specification

Product Description	This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the TP53 protein, and the other against the FOXO3 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.
Reactivity	Human
Quality Control Testing	Protein protein interaction immunofluorescence result. Representative image of Proximity Ligation Assay of protein-protein interactions between TP53 and FOXO3. HeLa cells were stained with anti-TP53 rabbit purified polyclonal antibody 1:1200 and anti-FOXO3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.
Supplied Products	Antibody pair set content: 1. TP53 rabbit purified polyclonal antibody (100 ug) 2. FOXO3 mouse monoclonal antibody (40 ug) *Reagents are sufficient for at least 30-50 assays using recommended protocols.
Storage Instruction	Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

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- *In situ* Proximity Ligation Assay (Cell)

Gene Info — FOXO3

Entrez GeneID	2309
Gene Name	FOXO3
Gene Alias	AF6q21, DKFZp781A0677, FKHRL1, FKHRL1P2, FOXO2, FOXO3A, MGC12739, MGC31925
Gene Description	forkhead box O3
Omim ID	602681
Gene Ontology	Hyperlink
Gene Summary	This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. This gene likely functions as a trigger for apoptosis through expression of genes necessary for cell death. Translocation of this gene with the MLL gene is associated with secondary acute leukemia. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq
Other Designations	OTTHUMP00000016944|forkhead box O3A|forkhead homolog (rhabdomyosarcoma) like 1|forkhead, Drosophila, homolog of, in rhabdomyosarcoma-like 1

Gene Info — TP53

Entrez GeneID	7157
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

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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
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Colorectal cancer
- Endometrial cancer
- Endometrial cancer
- Glioma
- MAPK signaling pathway
- Melanoma
- Neurotrophin signaling pathway
- Neurotrophin signaling pathway
- Non-small cell lung cancer

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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
- Alzheimer disease
- Ameloblastoma
- Amenorrhea
- Aneuploidy
- Anoxia
- Anus Neoplasms

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- Arsenic Poisoning
- 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
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Artery Thrombosis
- Cell Transformation
- Cerebellar Neoplasms
- Cerebral Infarction

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- Cervical Intraepithelial Neoplasia
- Chagas Disease
- Cholecystitis
- Choriocarcinoma
- Choroid Plexus Neoplasms
- Chromosomal Instability
- Chromosome Aberrations
- Chromosome Deletion
- Chronic Disease
- Cicatrix
- Cleft Lip
- Cleft Palate
- Cocarcinogenesis
- Cognition
- Cognition Disorders
- Colitis
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Condylomata Acuminata
- Conjunctival Neoplasms
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Craniocerebral Trauma

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- Crohn Disease
- Cystadenocarcinoma
- Delayed Graft Function
- Depressive Disorder
- Diabetes Mellitus
- Diabetes Mellitus
- Diabetic Nephropathies
- Digestive System Neoplasms
- Disease Progression
- Disease Susceptibility
- DNA Damage
- Down Syndrome
- Duodenal Ulcer
- Edema
- Edema
- Ehlers-Danlos Syndrome
- Endometrial Hyperplasia
- Endometrial Neoplasms
- Endometriosis
- Epidermodysplasia Verruciformis
- Epstein-Barr Virus Infections
- Esophageal Neoplasms
- Fallopian Tube Neoplasms
- Gallbladder Neoplasms
- Ganglioglioma
- Gastritis

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- Gastroesophageal Reflux
- Gastrointestinal Neoplasms
- Gastrointestinal Stromal Tumors
- Genetic Diseases
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Genital Neoplasms
- Genomic Instability
- 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

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- Infertility
- Infertility
- Inflammation
- Inflammatory Bowel Diseases
- Intestinal Neoplasms
- Intracranial Thrombosis
- Keloid
- Keratosis
- Kidney Failure
- Kidney Neoplasms
- 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

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- Malignant melanoma
- Medulloblastoma
- Melanoma
- Meningeal Neoplasms
- Meningioma
- Mental Retardation
- Metaplasia
- Microsatellite Instability
- Mouth Neoplasms
- Multiple Myeloma
- Multiple Sclerosis
- Myelodysplastic Syndromes
- Narcolepsy
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Nerve Sheath Neoplasms
- Neural Tube Defects
- Neurilemmoma
- Neuroectodermal Tumors
- Neurofibroma
- Neurofibromatosis
- Neurofibromatosis 2
- Neuroma

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- Neuropsychological Tests
- Neutropenia
- Nijmegen Breakage Syndrome
- Nose Neoplasms
- Obesity
- Obesity
- Occupational Diseases
- Ocular Hypertension
- Oligodendroglioma
- Oligospermia
- Optic Atrophy
- Oral Submucous Fibrosis
- Oropharyngeal Neoplasms
- Osteoarthritis
- Osteosarcoma
- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Papilloma
- Papillomavirus Infections
- Pemphigus
- Penile Neoplasms
- Peptic Ulcer
- Peritoneal Neoplasms

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- Pharyngeal Neoplasms
- Postoperative Complications
- Precancerous Conditions
- Primary Ovarian Insufficiency
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Intraepithelial Neoplasia
- Prostatic Neoplasms
- Psoriasis
- Pterygium
- Pulmonary Disease
- Pulmonary Fibrosis
- Radiation Injuries
- Radiodermatitis
- Rectal Neoplasms
- Recurrence
- Roseolovirus Infections
- Sarcoma
- Schizophrenia
- Skin Diseases
- Skin Neoplasms
- Small Cell Lung Carcinoma
- Spinal Dysraphism
- Stomach Neoplasms
- Stomach Ulcer
- Subarachnoid Hemorrhage

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- Substance-Related Disorders
- Sunburn
- The p53 tumor suppressor protein
- Thyroid Diseases
- Thyroid Neoplasms
- Thyroiditis
- Tobacco Use Disorder
- Tobacco Use Disorder
- Tongue Neoplasms
- Tooth Abnormalities
- Tumor Virus Infections
- Uremia
- Urinary Bladder Neoplasms
- Urologic Diseases
- Uterine Cervical Diseases
- Uterine Cervical Dysplasia
- Uterine Cervical Neoplasms
- Uterine Neoplasms
- Waldenstrom Macroglobulinemia
- Wegener Granulomatosis
- Werner syndrome

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