

OriGene Technologies, Inc.

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Product datasheet for TP724629

p53 (TP53) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Cellular Tumor Antigen p53 (N-His)
Species:	Human
Expression cDNA Clone or AA Sequence:	M1-D393
Tag:	N-6His
Buffer:	Supplied as a 0.2 um filtered solution of 2umM Tris,30umM NaCl ,5% glycerol ,umM DTT, 0.0umM ZnCl2, pH8.0
Note:	Recombinant human cellular tumor antigen p53 is produced by E.coli. The target gene encoding M1-D393 is expressed with a 6His tag at the N terminus.
Storage:	Store at \leq -70°C, stable for 6 months after receipt. Store at \leq -70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Stability:	12 months from date of despatch
Locus ID:	7157
UniProt ID:	<u>P04637</u>
Synonyms:	Antigen NY-CO-13; BCC7; FLJ92943; LFS1; LFS1TRP53; p53 tumor suppressor; p53; P53cellular tumor antigen p53; Phosphoprotein p53; TP53; transformation-related protein 53; TRP53; tumor protein p53; Tumor suppressor p53
Summary:	p53 is a DNA-binding protein that belongs to the p53 family. p53 is expressed ubiquitously and its isoforms are expressed widely in normal tissues but in a tissue-dependent manner. It is well known for its key role as a tumor suppressor protein. p53 induces growth arrest or apoptosis depending on the physiological circumstances and cell type. It is also 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. Whilst the activation of p53 often leads to apoptosis, p53 inactivation facilitates tumor progression. Mutants of p53, which frequently occur in different human cancers, fail to bind the consensus DNA binding site, and thus cause the loss of tumor suppressor activity. Defects in TP53 are a cause of esophageal cancer, Li- Fraumeni syndrome, lung cancer and adrenocortical carcinoma.
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors



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Protein Pathways:Amyotrophic lateral sclerosis (ALS), Apoptosis, Basal cell carcinoma, Bladder cancer, Cell cycle,
Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, Glioma, Huntington's
disease, MAPK signaling pathway, Melanoma, Neurotrophin signaling pathway, Non-small cell
lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer,
Small cell lung cancer, Thyroid cancer, Wnt signaling pathway

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