

Recombinant Human TP53 protein, GST tagged

Cat. No. TP53-30574TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TP53 protein (1-393 aa) with GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-393 aa
Description	This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. Mutations in this gene are associated with a variety of human cancers, including hereditary cancers such as Li-Fraumeni syndrome. Alternative splicing of this gene and the use of alternate promoters result in multiple transcript variants and isoforms. Additional isoforms have also been shown to result from the use of alternate translation initiation codons from identical transcript variants (PMIDs: 12032546, 20937277).
Source	E. coli
Species	Human
Tag	GST
Molecular Weight	70 kDa

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AA Sequence

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY
 YIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGAVLDIRYGVSR IAYSKD FE
 TLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDA
 FPKLVCFKKRIEAIPQIDKYLKSSKYIAWPLQG WQATFGGGDHPPKSDLVPRGSEEP
 QSDPSVEPPLSQETFSDLWKLLPENNVLSPLPSQAMDDLMLSPDDIEQWFTEDPGP
 DEAPRMPEAAPPVAPAPAAPTPAAPAPAPSWPLSSSVPSQKTYQGSYGFRLGFLHS
 GTAKSVTCTYSPALNKMFCQLAKTCPVQLWVDSTPPPGRVVRAMAIYKQSQHMT E
 VVRRCPHHERCSDSDGLAPPQHILRVEGNLRVEYLDDRNTFRHSVVVPYEPPEVGS
 DCTTIHYNMCMNSSCMGGMNRRPILTIITLEDSSGNLLGRNSFEVRVCACPGRDRRT
 EEENLRKKGEPHHELPPGSTKRALPNNTSSSPQPKKKPLDGEYFTLQIRGRERFEM
 FRELNEALELKDAQAGKEPGGSRAHSSHLKSKKGQSTSRHKKLMFKTEGPDSD

Purity > 90% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer Sterile 50mM Tris, pH7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% Glycerol

Concentration 0.5 mg/mL by Bradford

GENE INFORMATION

Gene Name TP53 tumor protein p53 [Homo sapiens (human)]

Official Symbol TP53

Synonyms TP53; tumor protein p53; cellular tumor antigen p53; LFS1; Li Fraumeni syndrome; p53; antigen NY-CO-13; mutant p53 protein; phosphoprotein p53; p53 tumor suppressor; truncated p53 protein; tumor suppressor TP53; transformation-related

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protein 53; P53; TRP53; FLJ92943

Gene ID 7157

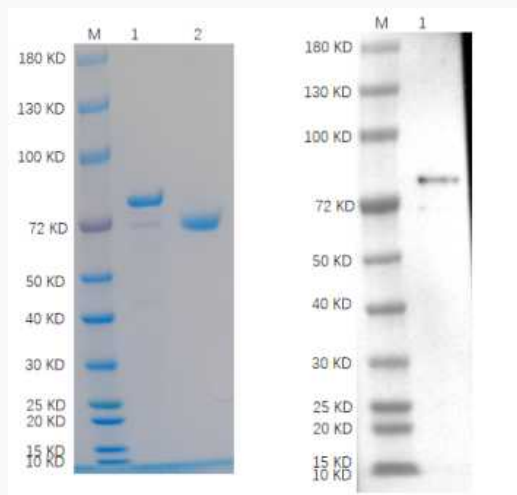
mRNA Refseq NM_000546

Protein Refseq NP_000537

MIM 191170

UniProt ID P04637

Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-GST Mouse Monoclonal antibody) analysis profiles of purified TP53.



1. TP53: 1 μ g

2. BSA: 1 μ g

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