

Active Recombinant Full Length Human TP53 Protein, Flag tagged

Cat. No. TP53-01HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant p53 (TP53) protein was expressed in a baculovirus expression system as the full length protein (accession number NP_000537.3) with an N-terminal FLAG tag.
Species	Human
Source	Insect Cells
ProteinLength	1-393 aa
Description	p53 (TP53) (Tumor Protein P53), also known as Phosphoprotein P53, Transformation-Related Protein 53 or Antigen NY-CO-13, is a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. It involves 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. p53 induces the transcription of long intergenic non-coding RNA p21 (lincRNA-p21) and lincRNA-Mkln1, thus participating in TP53-dependent transcriptional repression leading to apoptosis and seem to have to effect on cell-cycle regulation. It is required for apoptosis induction, which seems to be mediated either by stimulation of BAX and FAS antigen expression, or by repression of Bcl-2 expression. In cooperation with mitochondrial PPIF, p53 also is involved in activating oxidative stress-induced necrosis, which is largely independent of transcription.

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Molecular Mass	44.9 kDa
Purity	≥ 95%
Application	Recombinant p53 (TP53) protein is suitable for use in the study of protein-protein interaction, in vitro transcription assay, binding assay.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Storage Buffer	Recombinant p53 (TP53) protein is supplied in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100 and 0.5 mM TCEP.

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 protein 53; P53; TRP53; FLJ92943
Gene ID	7157
mRNA Refseq	NM_000546
Protein Refseq	NP_000537

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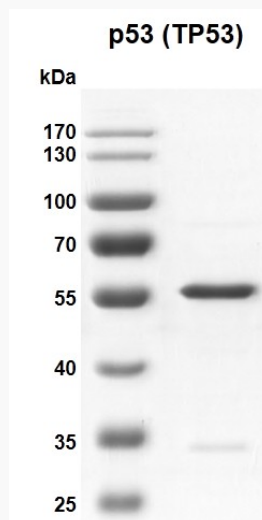
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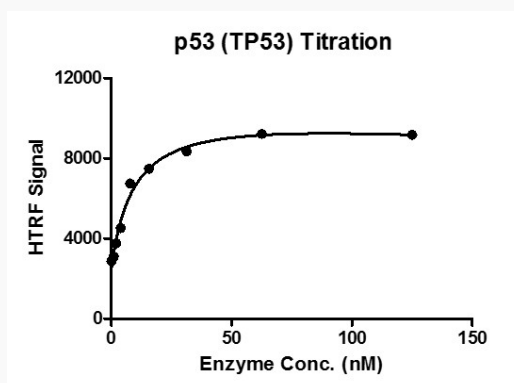
UniProt ID P04637

SDS-PAGE



10% SDS-PAGE Coomassie staining

HTRF assay



1 μ M oligo ds DNA (sequence: 5'-CCGGACATGCCCGGGCATGT-3') was incubated with p53 (TP53) for 1 hour, then 10 μ L FLAG antibody and SA-XL665

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mixture (each 1: 100 dilution in binding buffer) was added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.