Tumor Protein p53 Active Protein | P53 active protein

Active Tumor Protein p53 (P53)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA150104	**E. coli**	**Homo sapiens (Human)**	**Activity Assay, Cell Culture**

PRODUCT SYNONYMS

Tumor Protein p53; Active Tumor Protein p53 (P53); TP53; LFS1; TRP53; Li-Fraumeni Syndrome; Cellular tumor antigen p53; Antigen NY-CO-13; Phosphoprotein p53; Tumor suppressor p53; P53 active protein

PRODUCT SPECIFICATIONS

Host	E. coli
Reactivity	Homo sapiens (Human)
Purity/Purification	>90%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Concentration	Original Concentration: 80ug/mL (varies by lot)
Applicable Applications for P53 active protein	Activity Assay, Cell Culture
Source	Prokaryotic expression
Residues	Gly108~Lys370
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted isoelectric point	9.0
Usage	Reconstitute in ddH2O to a concentration of 0.1-0.5 mg/mL. Do not vortex
Preparation and Storage	**Storage:** Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. **Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES

Application Data

Tumor protein p53, also known as p53, cellular tumor antigen p53 (UniProt name), phosphoprotein p53, tumor suppressor p53, antigen NY-CO-13, or transformationrelated protein 53 (TRP53), is any isoform of a protein encoded by homologous genes in various organisms, such as TP53 (humans) and Trp53 (mice). TP53 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. One of the activated genes is an inhibitor of cyclin-dependent kinases. To test the effect of TP53 on cell apoptosis, Jurkat cells were seeded into triplicate wells of 96-well plates at a density of 5,000 cells/well with 1% serum standard 1640 including various concentrations of recombinant human TP53. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10uL of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37?. Proliferation of Jurkat cells after incubation with TP53 for 72h observed by inverted microscope was shown in Figure 1. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant TP53 for 72h. The result was shown in Figure 2. It was obvious that TP53 significantly inhibit cell viability of Jurkat cells.

Sequence

Identfication

Gene Sequencing (Extract

WB (Western Blot)

Western Blot; Sample: Recombinant P53, Human; Antibody: Rabbit Anti-Human P53 Ab

SDS-PAGE

Figure. SDS-PAGESample: Active recombinant P53, Human

ADDITIONAL INFORMATION

Product Categories/Family for P53 active protein	Signal transduction; Metabolic pathway; Tumor immunity

NCBI AND UNIPROT INFORMATION

NCBI GI #	120407068
NCBI GeneID	7157
NCBI Accession #	NP_000537.3
NCBI GenBank Nucleotide #	NP_000537.3
UniProt Accession #	P04637
Molecular Weight	Predicted Molecular Mass: 33.3kDa Accurate Molecular Mass: 34kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	cellular tumor antigen p53 isoform a
NCBI Official Synonym Full Names	tumor protein p53
NCBI Official Symbol	TP53
NCBI Official Synonym Symbols	P53; BCC7; LFS1; BMFS5; TRP53

NCBI Protein Information	cellular tumor antigen p53
UniProt Protein Name	Cellular tumor antigen p53
UniProt Gene Name	**TP53**
UniProt Synonym Gene Names	P53
UniProt Entry Name	P53_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/e-coli-homo-sapiens-human-active-protein/tumor-protein-p53/150104