

Human p53 protein, His tag (active)

Cat. No. GTX00268-pro

Applications Functional Assay**Species** Human**Package**

10 µg

Applications

Application Note

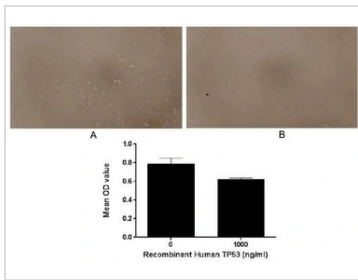
Tumor protein p53, also known as p53, cellular tumor antigen p53 (UniProt name), phosphoprotein p53, tumor suppressor p53, antigen NY-CO-13, or transformation- related protein 53 (TRP53), is any isoform of a protein encoded by homologous genes in various organisms, such as TP53 (humans) and Trp53 (mice). 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 5000 cells/well with 1% serum standard RPMI-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, 10 µl 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°C. Proliferation of Jurkat cells after incubation with TP53 for 72h observed by inverted microscope.

Observed MW (kDa) 34 kDa.

Properties

Form Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Gly108~Lys370 (NP_000537.3)**Expression System** E. coli**Purity** > 97%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

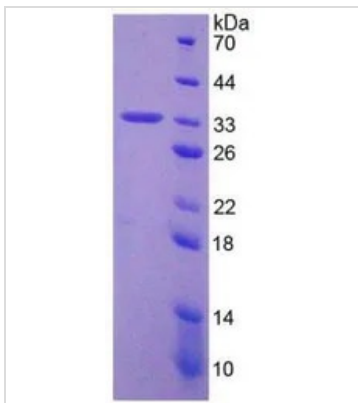
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DATA IMAGES

GTX00268-pro Functional Assay Image

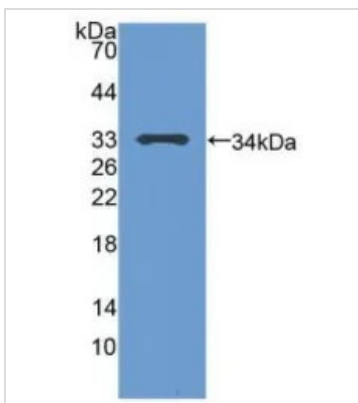
Cell proliferation effect of GTX00268-pro Human p53 protein (active). Cell viability was measured by Cell Counting Kit-8 (CCK-8).

(A) Unstimulated Jurkat cells cultured in RPMI-1640 for 72hrs.

(B) Jurkat cells cultured in RPMI-1640, stimulated with 1 µg/ml TP53 for 72hrs.


GTX00268-pro Image

SDS-PAGE analysis of GTX00268-pro Human p53 protein (active).


GTX00268-pro Image

WB analysis of GTX00268-pro Human p53 protein (active).



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