

Tumor Protein p53 Active Protein | P53 active protein

Active Tumor Protein p53 (P53)

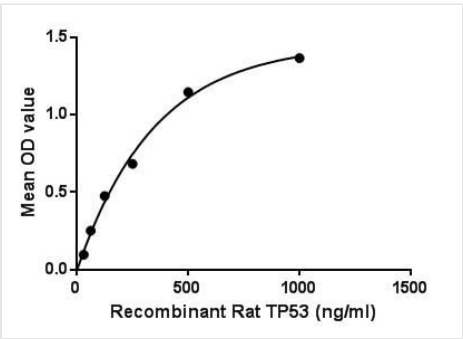
CATALOG # AAA150105	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

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

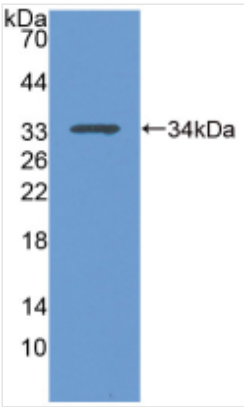
PRODUCT SPECIFICATIONS

Purity/Purification	>97%
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Pro90~Ala354
Sequence Length	391
Applicable Applications for P53 active protein	Activity Assay, Cell Culture
Species	Rat
Tag	N-terminal His Tag
Isoelectric Point	9
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. Stability: 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.

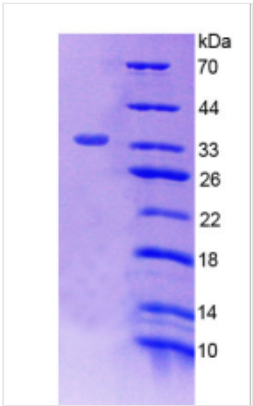


Bioactivity

Tumor protein p53 (TP53), also known as p53, cellular tumor antigen p53 has many mechanisms of anticancer function and plays a role in apoptosis, genomic stability, and inhibition of angiogenesis. TP53 act as a tumor suppressor in many tumor types; induces growth arrest or apoptosis depending on the physiological circumstances and cell type. It 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. Besides, CREB Binding Protein (CREBBP) has been identified as an interactor of TP53, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat TP53 and recombinant rat CREBBP. Briefly, TP53 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100L were then transferred to CREBBP-coated microtiter wells and incubated for 2h at 37. Wells were washed with PBST and incubated for 1h with anti-TP53 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of TP53 and CREBBP was shown in Figure 1, and this effect was in a dose dependent manner. Figure. The binding activity of TP53 with CREBBP.



WB (Western Blot)
Figure. Western Blot



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for P53 active protein	Signal transduction; Metabolic pathway; Tumor immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	189083686
NCBI GeneID	24842
NCBI Accession #	NP_112251.2
NCBI GenBank Nucleotide #	NP_112251.2
UniProt Accession #	P10361

Molecular Weight	Predicted Molecular Mass: 33.7kDa Accurate Molecular Mass: 36kDa
NCBI Official Full Name	cellular tumor antigen p53
NCBI Official Synonym Full Names	tumor protein p53
NCBI Official Symbol	Tp53
NCBI Official Synonym Symbols	p53; Trp53
NCBI Protein Information	cellular tumor antigen p53
UniProt Protein Name	Cellular tumor antigen p53
UniProt Gene Name	Tp53
UniProt Synonym Gene Names	P53

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/active-protein/tumor-protein-p53/150105>