

## Rat p53 protein, His tag

**Cat. No. GTX00376-pro**

**Applications** Functional Assay

**Species** Rat

**Package**

10 µg

### Applications

#### Application Note

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 100 µl were then transferred to CREBBP-coated microtiter wells and incubated for 2h at 37°C. 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°C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of TP53 and CREBBP was in a dose dependent manner.

**Observed MW (kDa)** 36 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; Pro90~Ala354 (NP\_112251.2)

**Expression System** E. coli

**Purity** > 97%

**Endotoxin** < 1 EU/µg

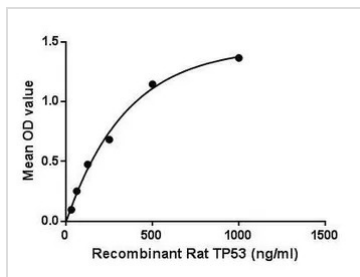
**Conjugation** Unconjugated

**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



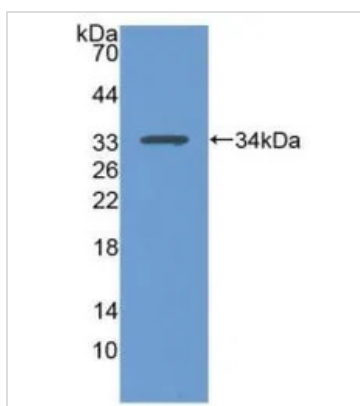
For full product information, images and publications, please visit our [website](https://www.genetex.com).

## DATA IMAGES



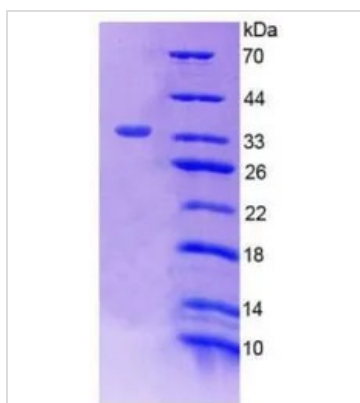
### GTX00376-pro Functional Assay Image

Functional ELISA analysis of GTX00376-pro Rat p53 protein which can bind immobilized CREBBP protein.



### GTX00376-pro Image

WB analysis of GTX00376-pro Rat p53 protein.



### GTX00376-pro Image

SDS-PAGE analysis of GTX00376-pro Rat p53 protein.



For full product information, images and publications, please visit our [website](https://www.genetex.com).