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Product Datasheet

Rat p53 protein, His tag, Unconjugated GTX00376-PRO

Artikelname	Rat p53 protein, His tag, Unconjugated
Artikelnummer	GTX00376-PRO
Hersteller Artikelnummer	GTX00376-pro
Alternativnummer	GTX00376-PRO-10
Hersteller	GeneTex
Kategorie	Proteine/Peptide
Applikation	FA
Spezies Reaktivität	Rat
Konjugation	Unconjugated
NCBI	24842
UniProt	P10361
Puffer	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, ProClin 300.
Expression System	E. coli
Formulierung	Lyophilized powder
Sequenz	N-terminal His-Tag, Pro90~Ala354 (NP_112251.2)

Anwendungsbeschreibung

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 37C. 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 37C. 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.