

Recombinant rat Cellular tumor antigen p53 protein

Catalog No: #AP72290



Package Size: #AP72290-1 20ug #AP72290-2 100ug #AP72290-3 1mg

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Description

Product Name	Recombinant rat Cellular tumor antigen p53 protein
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-391aaSequence Info:Full Length
Other Names	Tumor suppressor p53
Accession No.	P10361
Uniprot	P10361
GeneID	24842;
Calculated MW	47.5 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MEDSQSDMSIELPLSQETFSCWLKLLPPDDILPTTATGSPNSMEDLFLPQDVAELLEGPEEALQVSAPAAQEP GTEAPAPVAPASATPWPLSSSVPSQKTYQGNYGFHLGFLQSGTAKSVMCTYSISLNKLFQQLAKTCPVQLWV TSTPPPGRTRVAMAIYKKSQHMTEVRRCPHHERCSDGDGLAPPQHLIRVEGNPYAEYLDDRQTFRHSVVVP YEPPEVGSDYTTIHYKYMENSSCMGGMNRRPILTIITLEDSSGNLLGRDSFEVRCACPRDRRTEENFRKK EEHCPELPPGSAKRALPTSTSSSPQKKKPLDGEYFTLKIRGRERFEMFRELNEALELKDARAAEESGDSRAH SSYPKTKKGQSTSRHKKPMIKKVGPDSD
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Acts as a tumor suppressor in many tumor types; induces growth arrest or apoptosis depending on the physiological circumstances and cell type. 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. Apoptosis induction seems to be mediated either by stimulation of BAX and FAS antigen expression, or by repression of Bcl-2 expression. In cooperation with mitochondrial PPIF is involved in activating oxidative stress-induced necrosis; the function is largely independent of transcription. Prevents CDK7 kinase activity when associated to CAK complex in response to DNA damage, thus stopping cell cycle progression. Induces the transcription of long intergenic non-coding RNA p21 (lincRNA-p21) and lincRNA-Mkn1. LincRNA-p21 participates in TP53-dependent transcriptional repression leading to apoptosis and seems to have an effect on cell-cycle regulation. Regulates the circadian clock by repressing CLOCK-ARNTL, BMAL1-mediated transcriptional activation of PER2.

References

Heat shock protein 84 forms a complex with mutant p53 protein predominantly within a Cytoplasmic domain compartment of the cell. Sepehnia B., Paz I.B., Dasgupta G., Momand J.J. Biol. Chem. 271:15084-15090(1996)Research Topic:Others

Note: This product is for in vitro research use only