.-online.com antibodies

Datasheet for ABIN3132428 **p53 Protein (AA 1-387) (His tag)**



Overview

| Quantity: | 1 mg |
|-------------------------------|--|
| Target: | p53 (TP53) |
| Protein Characteristics: | AA 1-387 |
| Origin: | Mouse |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This p53 protein is labelled with His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys) |

Product Details

| Sequence: | MEESQSDISL ELPLSQETFS GLWKLLPPED ILPSPHCMDD LLLPQDVEEF FEGPSEALRV |
|------------------|---|
| | SGAPAAQDPV TETPGPVAPA PATPWPLSSF VPSQKTYQGN YGFHLGFLQS GTAKSVMCTY |
| | SPPLNKLFCQ LAKTCPVQLW VSATPPAGSR VRAMAIYKKS QHMTEVVRRC PHHERCSDGD |
| | GLAPPQHLIR VEGNLYPEYL EDRQTFRHSV VVPYEPPEAG SEYTTIHYKY MCNSSCMGGM |
| | NRRPILTIIT LEDSSGNLLG RDSFEVRVCA CPGRDRRTEE ENFRKKEVLC PELPPGSAKR |
| | ALPTCTSASP PQKKKPLDGE YFTLKIRGRK RFEMFRELNE ALELKDAHAT EESGDSRAHS |
| | SYLKTKKGQS TSRHKKTMVK KVGPDSD |
| | Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a |
| | special request, please contact us. |
| Characteristics: | Made in Germany - from design to production - by highly experienced protein experts. Mouse Tp53 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. |

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3132428 | 05/01/2024 | Copyright antibodies-online. All rights reserved.

| er. Our |
|------------|
| u. Uul |
| custom |
| e protein |
| · |
| e anything |
| ss for |
| ression |
| |
| ectly |
| enced |
| ed. |
| 280nm. |
| ist its |
| |
| . We use |
| |
| |
| nree |
| ate |
| ation step |
| E and |
| |
| t. |
| |
| |
| |
| |
| |
| |
| |
| |

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3132428 | 05/01/2024 | Copyright antibodies-online. All rights reserved.

| Target Details | |
|---------------------|--|
| 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 (By similarity). Induces the transcription of |
| | long intergenic non-coding RNA p21 (lincRNA-p21) and lincRNA-MkIn1. LincRNA-p21 |
| | participates in TP53-dependent transcriptional repression leading to apoptosis, but seems to |
| | have to effect on cell-cycle regulation. Regulates the circadian clock by repressing CLOCK- |
| | ARNTL/BMAL1-mediated transcriptional activation of PER2 (PubMed:24051492). |
| | {ECO:0000250 UniProtKB:P04637, ECO:0000269 PubMed:19556538, |
| | EC0:0000269 PubMed:20673990, EC0:0000269 PubMed:22726440, |
| | EC0:0000269 PubMed:24051492}. |
| Molecular Weight: | 44.1 kDa Including tag. |
| UniProt: | P02340 |
| Pathways: | p53 Signaling, MAPK Signaling, PI3K-Akt Signaling, Apoptosis, AMPK Signaling, Chromatin |
| | Binding, ER-Nucleus Signaling, Positive Regulation of Endopeptidase Activity, Hepatitis C, |
| | Protein targeting to Nucleus, Autophagy, Warburg Effect |
| Application Details | |
| Application Notes: | In addition to the applications listed above we expect the protein to work for functional studies |
| | as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee |
| | though. |
| Comment: | Protein has not been tested for activity yet. In cases in which it is highly likely that the |
| | recombinant protein with the default tag will be insoluble our protein lab may suggest a higher |
| | molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible |
| | options with you in detail to assure that you receive your protein of interest. |
| Restrictions: | For Research Use only |
| | |

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3132428 | 05/01/2024 | Copyright antibodies-online. All rights reserved.

Handling

| Format: | Liquid |
|------------------|--|
| Buffer: | 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | Unlimited (if stored properly) |