.-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)