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p53 Protein (His-SUMO Tag)



Image



Publications



Overview

Quantity:	100 μg
Target:	p53 (TP53)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This p53 protein is labelled with His-SUMO Tag.
Application:	ELISA

i diffication tag / conjugate.	This poo protein is labelled with his solvio ray.
Application:	ELISA
Product Details	
Sequence:	MEEPQSDPSVE PPLSQETFSD LWKLLPENNV LSPLPSQAMD DLMLSPDDIE QWFTEDPGPD
	EAPRMPEAAP PVAPAPAAPT PAAPAPAPSW PLSSSVPSQK TYQGSYGFRL GFLHSGTAKS
	VTCTYSPALN KMFCQLAKTC PVQLWVDSTP PPGTRVRAMA IYKQSQHMTE VVRRCPHHER
	CSDSDGLAPP QHLIRVEGNL RVEYLDDRNT FRHSVVVPYE PPEVGSDCTT IHYNYMCNSS
	CMGGMNRRPI LTIITLEDSS GNLLGRNSFE VRVCACPGRD RRTEEENLRK KGEPHHELPP
	GSTKRALPNN TSSSPQPKKK PLDGEYFTLQ IRGRERFEMF RELNEALELK DAQAGKEPGG
	SRAHSSHLKS KKGQSTSRHK KLMFKTEGPD SD
	The complete sequence will be provided upon request, including tag sequence, target
	protein sequence and linker sequence
Specificity:	Full length protein with N-terminal 6xHis-SUMO-Tag
Characteristics:	Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalien
	cells or by baculovirus infection. Be aware about differences in price and lead time.
Purity:	Greater than 90% as determined by SDS-PAGE.

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Target Details

p53 (TP53)
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Cellular tumor antigen p53 protein (TP53 Products)
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. Implicated in Notch signaling cross-over.
Prevents CDK7 kinase activity when associated to CAK complex in response to DNA damage,
thus stopping cell cycle progression. Isoform 2 enhances the transactivation activity of isoform
1 from some but not all TP53-inducible promoters. Isoform 4 suppresses transactivation
activity and impairs growth suppression mediated by isoform 1. Isoform 7 inhibits isoform 1-
mediated apoptosis.
59.7kDa
P04637
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
The yeast protein expression system is the most economical and efficient eukaryotic system
for secretion and intracellular expression. A protein expressed by the mammalian cell system is
of very high-quality and close to the natural protein. But the low expression level, the high cost
of medium and the culture conditions restrict the promotion of mammalian cell expression
systems. The yeast protein expression system serve as a eukaryotic system integrate the
advantages of the mammalian cell expression system. A protein expressed by yeast system
could be modificated such as glycosylation, acylation, phosphorylation and so on to ensure the
native protein conformation. It can be used to produce protein material with high added value

Restrictions: For Research Use only

that is very close to the natural protein. Our proteins produced by yeast expression system has

been used as raw materials for downstream preparation of monoclonal antibodies.

Handling

Format:	Liquid
Concentration:	0.2-2 mg/mL
Buffer:	10 mM Tris-HCl, 1 mM EDTA, pH 8.0 , 50% glycerol
Handling Advice:	Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to one week
Storage:	-20 °C
Storage Comment:	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.

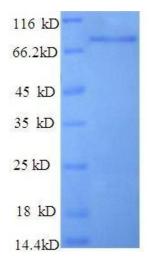
Publications

Product cited in:

Shukla, Swaroop, Srivastava, Weissman: "The mRNA of a human class I gene HLA G/HLA 6.0 exhibits a restricted pattern of expression." in: **Nucleic acids research**, Vol. 18, Issue 8, pp. 2189 , (1990) (PubMed).

Geraghty, Koller, Orr: "A human major histocompatibility complex class I gene that encodes a protein with a shortened cytoplasmic segment." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 84, Issue 24, pp. 9145-9, (1988) (PubMed).

Images



SDS-PAGE

Image 1. Tumor Protein P53 (TP53) (AA 2-393), (partial) protein (GST tag)