

Datasheet for ABIN2734068

p53 Protein (Transcript Variant 1) (Myc-DYKDDDDK Tag)[Go to Product page](#)[2 Images](#)[2 Publications](#)

Overview

Quantity:	20 µg
Target:	p53 (TP53)
Protein Characteristics:	Transcript Variant 1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This p53 protein is labelled with Myc-DYKDDDDK Tag.
Application:	Standard (STD), Antibody Production (AbP)

Product Details

Characteristics:	<ul style="list-style-type: none">• Recombinant human TP53 / p53 (transcript variant 1) protein expressed in HEK293 cells.• Produced with end-sequenced ORF clone
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining

Target Details

Target:	p53 (TP53)
Alternative Name:	Tp53,p53 (TP53 Products)
Background:	This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. Mutations in this gene are associated with

Target Details

a variety of human cancers, including hereditary cancers such as Li-Fraumeni syndrome. Alternative splicing of this gene and the use of alternate promoters result in multiple transcript variants and isoforms. Additional isoforms have also been shown to result from the use of alternate translation initiation codons from identical transcript variants (PMIDs: 12032546, 20937277).

Molecular Weight: 43.5 kDa

NCBI Accession: [NP_000537](#)

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: Recombinant human proteins can be used for:
Native antigens for optimized antibody production
Positive controls in ELISA and other antibody assays

Comment: The tag is located at the C-terminal.

Restrictions: For Research Use only

Handling

Concentration: 50 µg/mL

Buffer: 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

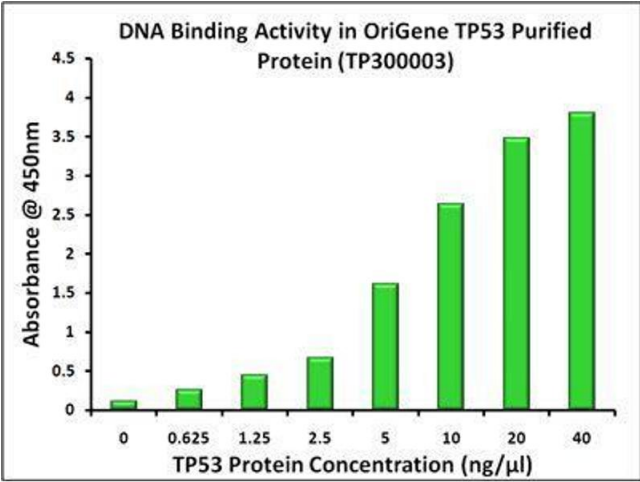
Storage: -80 °C

Storage Comment: Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.

Publications

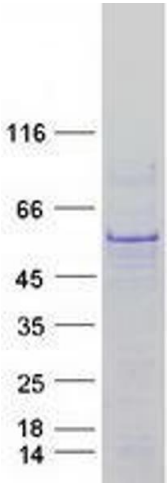
Product cited in: Li, Xia, Su, Qin, Chen, Li, Dong, Ding, Li, Huang, Ge, Hou, Wang, Sun, Bai, Shen, Fang, Liu, Zhang, Zhang, Zhang, Shao: "Species-specific mutual regulation of p53 and miR-138 between human, rat and mouse." in: **Scientific reports**, Vol. 6, pp. 26187, (2016) ([PubMed](#)).

Lebedev, Nemajero, Foda, Kornaj, Tong, Moll, Seeliger: "A Novel In Vitro CypD-Mediated p53 Aggregation Assay Suggests a Model for Mitochondrial Permeability Transition by Chaperone



Activity Assay

Image 1. Bioactivity measured with Activity Assay



Western Blotting

Image 2. Validation with Western Blot