

Product datasheet for **LY400186**

p53 (TP53) (NM_000546) Human Over-expression Lysate

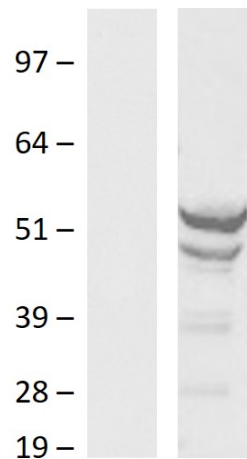
Product data:

Product Type:	Over-expression Lysates
Description:	Transient overexpression lysate of tumor protein p53 (TP53), transcript variant 1
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	TrueORF Clone RC200003
Tag:	C-Myc/DDK
Detection Antibodies:	Clone OT14C5, Anti-DDK (FLAG) monoclonal antibody (TA50011-100)
ACCN:	<u>NM_000546</u> , <u>NP_000537</u>
Synonyms:	BCC7; BMFS5; LFS1; P53; TRP53
Predicted MW:	43.7 kDa
Components:	1 vial of 100 µg gene specific transient over-expression cell lysate in RIPA buffer 1 vial of 100 µg whole HEK293T cell lysate in RIPA buffer 1 vial of 250ul 2xSDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% Glycerol, 0.002% Bromophenol blue, 100mM DTT)
Storage:	The lysate is shipped with dry ice. Upon receiving, store the sample at -80°C. Also after dilution, the protein sample should be aliquoted and stored at -80°C for long term storage. Avoid repeated freeze-thaw cycles. Lysate samples can be diluted with 2xSDS Sample Buffer provided. Lysate samples are stable for 12 months from the date of receipt when stored at -80°C.
Bioactivity:	TP53 Activity Verified in a DNA-binding Assay
Preparation:	HEK293T cells in 10-cm dishes were transiently transfected with <u>MegaTran</u> Transfection Reagent (TT200002) and 5ug <u>TrueORF</u> cDNA plasmid. Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer (25mM Tris-HCl pH7.6, 150mM NaCl, 1% NP-40, 1mM EDTA, 1xProteinase inhibitor cocktail mix (Sigma), 1mM PMSF and 1mM Na3VO4), and then centrifuged to clarify the lysate. Protein concentration was measured by BCA kit (Thermo Scientific Inc.). Cell lysates were aliquoted and stored at -20°C before shipping.
RefSeq:	<u>NP_000537</u>

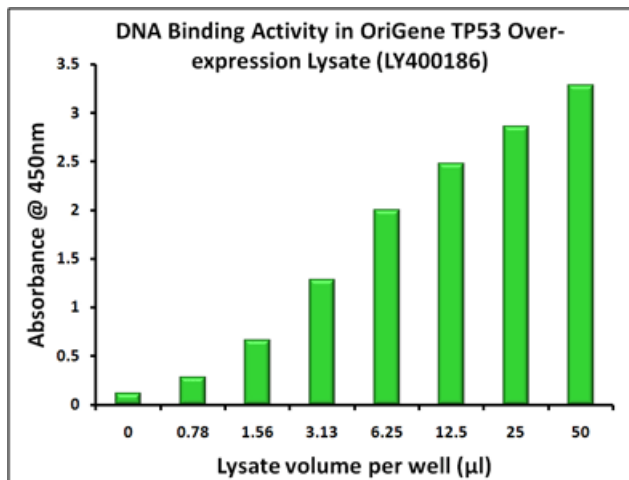

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Locus ID:	7157
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
Protein Pathways:	Amyotrophic lateral sclerosis (ALS), Apoptosis, Basal cell carcinoma, Bladder cancer, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, Glioma, Huntington's disease, MAPK signaling pathway, Melanoma, Neurotrophin signaling pathway, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, Small cell lung cancer, Thyroid cancer, Wnt signaling pathway

Product images:



Western blot validation of overexpression lysate (Cat# LY400186) using anti-DDK antibody (Cat# [TA592569]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC200003] using transfection reagent PEI.



TP53 activity in the over-expression lysate (LY400186) was measured in a colorimetric DNA-binding assay. Double-stranded oligonucleotide containing the p53 consensus DNA-binding sequence was incubated with dilutions of the over-expression lysate and TP53 bound to the oligo was captured onto the surface of a microtiter plate. After washing, bound TP53 was detected with an anti-p53 primary antibody followed by an HRP-labeled secondary antibody. After initial color development, the reaction was quenched and the color intensity was measured at 450nm. Overexpression cell lysates are prepared from HEK293T cells transfected with [RC200003] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).