

Product datasheet for TA329636

p53 (TP53) Mouse Monoclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: WB

Reactivity: WB, ChIP
Human
Host: Mouse
Isotype: IgG

Clonality: Monoclonal

Formulation: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2%

sucrose

Note that this product is shipped as lyophilized powder to China customers.

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 53 kDa

Gene Name: tumor protein p53

Database Link: NP 000537

Entrez Gene 7157 Human

P04637

Background: Tumor protein p53 responds to diverse cellular stresses to regulate target genes that induce

cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. p53 protein is expressed at low level in normal cells and at a high level in a variety of transformed cell lines, where it's believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing transcription activation, DNA-binding, and oligomerization domains. It is postulated to bind to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasion, and thus function as a tumor suppressor. Mutants of p53 that frequently occur in a number of different human cancers fail to bind the consensus DNA binding site, and hence cause the loss of tumor suppressor activity. Alterations of this gene occur not only as somatic mutations in human malignancies, but also as germline mutations

in some cancer-prone families with Li-Fraumeni syndrome



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Synonyms: BCC7; LFS1; P53; TRP53

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

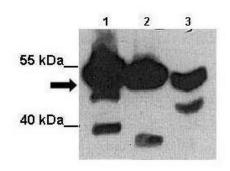
Protein Pathways: Amyotrophic lateral sclerosis (ALS), Apoptosis, Basal cell carcinoma, Bladder cancer, Cell cycle,

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:





See Immunoblot 2 Data and Customer Feedback for more Information

Lanes: Lane 1: 25ug MIA PaCa-2 cell lysate; Lane 2: 25ug MDA-MB-231 cell lysate; Lane 3: 25ug Huh-7 cell lysate; Primary Antibody Dilution: 1:2000; Secondary Antibody: Anti-rabbit-HRP; Secondary Antibody Dilution: 1:5000; Gene Name: TP53; Submitted by: Andrei L. Gartel, University of Illinois at Chicago;



WB Suggested Anti-TP53 Antibody Titration: 0.2ug/ml; Positive Control: Daudi cell lysateTP53 is supported by BioGPS gene expression data to be expressed in Daudi

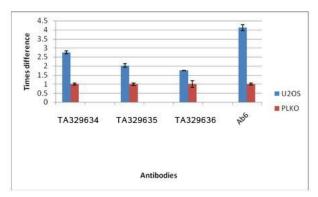


Figure 2. Binding of p53-specific antibodies to the p21 promoter.

Application: Chlp Assay Application data in forum Submitted by: Nick Barlev Department of Biochemistry University of Leicester U20S (p53+) cells were treated with 0.5 uM Doxorubicin for 14 hrs to induce DNA damage and hence activate p53. In parallel, PLKO cells (U2OS cells with stable shRNA-mediated knockdown of p53) were treated similarly and were used as negative control. Thedata for p21 promoter were normalised to actin (control for non-specific binding of DNA to the antibodies).