



Catalog: OM105174

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Rabbit anti-TP53 polyclonal antibody - N-terminal region

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☐ 100ug

Product profile

Product name	Rabbit anti-TP53 polyclonal antibody - N-terminal region
Antibody Type	Primary Antibodies
Immunogen	The immunogen for anti-TP53 antibody: synthetic peptide directed towards the N terminal of human TP53

Key Feature

Clonality	Polyclonal
Isotype	IgG
Host Species	Rabbit
Tested Applications	WB ,ChIP
Species Reactivity	Human
Concentration	1 mg/ml
Purification	Affinity purified

Target Information

Gene Symbol	TP53
Gene Synonyms	LFS1; TRP53; p53
Gene Summary	TP53 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. This gene encodes tumor protein p53, which 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 a 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 ex

pression 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. Multiple p53 variants due to alternative promoters and multiple alternative splicing have been found. These variants encode distinct isoforms, which can regulate p53 transcriptional activity.

Alternative Names	LFS1, TRP53, p53
Molecular Weight(MW)	44kDa
Sequence	393 amino acids

Database Links

Entrez Gene	7157
SwissProt ID	P04637
Protein Accession	NP_000537

Application

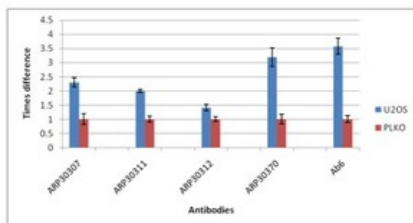
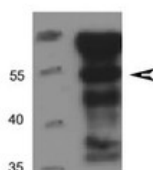


Figure 1. Binding of p53-specific antibodies to the p21 promoter.

Application: ChIP Assay
Application data in forum

Submitted by:
Nick Barlow
Department of Biochemistry
University of Leicester

TP53



See Immunoblot 3 Data and Customer Feedback tab for more information.

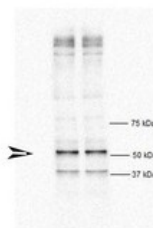
Chromatin Immunoprecipitation

U2OS (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. The data for p21 promoter were normalised to actin (control for non-specific binding of DNA to the antibodies).

Western blot

DU145 cells were lysed in IP lysis buffer (20mM HEPES, 1% Triton X-100, 150mM NaCl, 1mMEDTA, 1mM EGTA, 100mM NaF, 10mM Na4P2O7, 1mM Na3VO4, 0.2mM PMSF). Amount of protein per well: 30ug. Primary antibody conditions: 1:2000 in 5% milk/TBST buffer, overnight at 4°C. Secondary antibody conditions: 1:5000 in 5% milk/TBST buffer, 1 hour at room temperature.

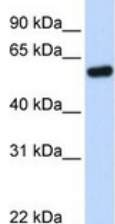
TP53



See Immunohistochemistry 1 Data and Customer Feedback tab for more information.

Western blot

Sample type: HeLa cells. Antibody titration: 1 to 1000. Gel: 4-15% gradient. Secondary: Goat anti-rabbit HRP. Secondary dilution: 1 to 5000.



Western blot

WB Suggested Anti-TP53 Antibody Titration: 0.2-1 ug/mL. ELISA Titer: 1:1562500. Positive Control: 293T.

Application Notes

WB: 1:500~1:2000

ChIP: 1:100~1:500

Notes: Optimal dilutions/concentrations should be determined by the researcher.

Additional Information

Form

Liquid

Storage Instructions	Aliquot and store at -20°C. Avoid repeated freeze / thaw cycles
Storage Buffer	phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Note	The product is for research use only,not for use in diagnostic or therapeutic procedures.

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