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Product Data Sheet

Purified anti-p53

Catalog # / Size: 645801 / 25 µg
645802 / 100 µg

Clone: DO-7

Isotype: Mouse IgG2b

Immunogen: p53 N-terminal linear epitope aa 20-25

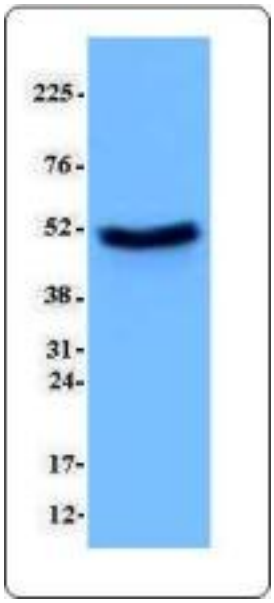
Reactivity: Human

Preparation: This antibody was purified by affinity chromatography.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



MCF-7 cell extract was resolved by electrophoresis, transferred to nitrocellulose and probed with monoclonal anti-p53 (clone DO-7) antibody. Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system.

Applications:

Applications: WB - *Quality tested*
IF - *Validated*
ELISA - *Reported in the literature*

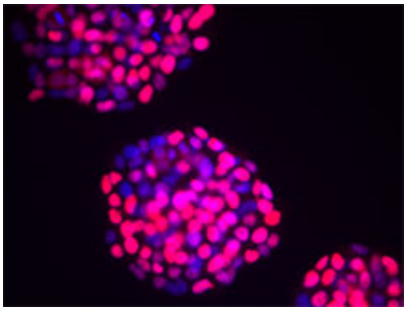
Recommended Usage: Each lot of this antibody has been quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 0.5 - 1.0 µg per ml antibody for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

Application References:
1. Vojtesek B, *et al.* 1992. *J. Immunol. Methods* 151:237.
2. Stephen CW, *et al.* 1995. *J. Mol. Biol*. 248:58.

Description: p53 is a 53 kD protein that forms tetramers and functions as a tumor suppressor and transcriptional activator of genes that inhibit growth and/or invasion, cell cycle checkpoint after irradiation, DNA repair, apoptotic induction, signal transduction, and cell adhesion. This protein is localized to the nucleus when activated and can be upregulated by genotoxic or other cellular stresses. p53 is modified by phosphorylation, acetylation, ribosylation, ubiquitination, and sumoylation; ubiquination targets p53 for degradation via mdm2. This protein interacts with a variety of proteins including mdm2, mdmx, topoisomerase I, PML3, Bcl-X_L, Bcl-2, Chk1, JNK, p38, HIPK2, CK2, DNA-PK, p300/CBP, PCAF, PARP1, and HDAC1-3. Mutant p53 associates with p63 and p73.

Related Products:

Product	Clone	Application
HRP Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	ELISA, IHC, WB



BT474 cells were stained with anti-p53 (clone DO-7), followed by Alexa Fluor® 546 secondary antibody and DAPI (nuclei). Images were aquired on a Nikon FC300 inverted microscope at 20X magnification. Data provided by Dr. John Nolan, La Jolla Bioengineering Institute.

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