

# Anti-p53 Antibody [C8-A11]

## M1312-2



<b>Product Type:</b>	Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IF-Cell, IHC-P
<b>Molecular Wt:</b>	Predicted band size: 53 kDa
<b>Clone number:</b>	C8-A11

**Description:** Cellular tumor antigen p53 is crucial in multicellular organisms, where it regulates the cell cycle and, thus, functions as a tumor suppressor, preventing cancer. As such, p53 has been described as "the guardian of the genome" because of its role in conserving stability by preventing genome mutation. Activated p53 binds DNA and activates expression of several genes including microRNA miR-34a, WAF1/CIP1 encoding for p21 and hundreds of other down-stream genes. p21 (WAF1) binds to the G1-S/CDK (CDK2) and S/CDK complexes (molecules important for the G1/S transition in the cell cycle) inhibiting their activity. p53 expression can be stimulated by UV light, which also causes DNA damage. In this case, p53 can initiate events leading to tanning.

**Immunogen:** Synthetic peptide within Human p53 aa 344-393.

**Positive control:** 293, A431, human liver carcinoma tissue

**Subcellular location:** Cytoplasm, nucleus

**Database links:** SwissProt: P04637 Human

**Recommended Dilutions:**

<b>IF-Cell</b>	1:500- 1:1,000
<b>IHC-P</b>	1:200
<b>WB</b>	1:500

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein G affinity purified.

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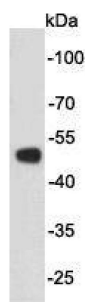
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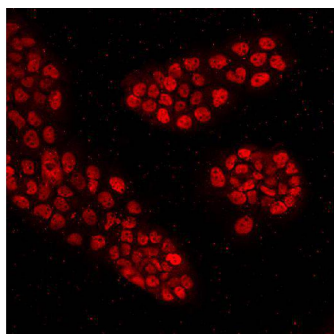
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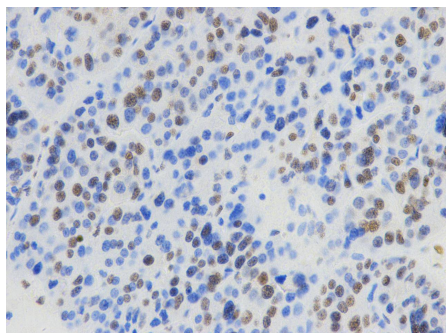
## Images



**Fig1:** Western blot analysis on 293 cell lysates using anti- p53 mouse mAb.



**Fig2:** ICC staining p53 in A431 cells (red). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig3:** Immunohistochemical analysis of paraffin-embedded human liver carcinoma tissue using anti- p53 mouse monoclonal antibody.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. "p53 and human cancer: the first ten thousand mutations." Hainaut P., Hollstein M. Adv. Cancer Res. 77:81-137(2000)
2. "Impact of mutant p53 functional properties on TP53 mutation patterns and tumor phenotype: lessons from recent developments in the IARC TP53 database." Petitjean A., Mathe E., Kato S., Ishioka C., Tavtigian S.V., Hainaut P., Olivier M. Hum. Mutat. 28:622-629(2007) "Stabilising the DNA-binding domain of p53 by rational design of its hydrophobic core." Khoo K.H., Joerger A.C., Freund S.M., Fersht A.R. Protein Eng. Des. Sel. 22:421-430(2009)

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