

# Anti-p53 Antibody

## R1308-7



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IF-Cell
<b>Molecular Wt:</b>	Predicted band size: 53 kDa

**Description:** The p53 tumor suppressor protein plays a major role in cellular response to DNA damage and other genomic aberrations. Activation of p53 can lead to either cell cycle arrest and DNA repair or apoptosis. It is 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. p53 is phosphorylated at multiple sites in vivo and by several different protein kinases in vitro. P53 is found in increased amounts in a wide variety of transformed cells. P53 is frequently mutated or inactivated in about 60% of cancers.

**Immunogen:** Synthetic peptide within C-terminal human P53.

**Positive control:** MDA-MB-231 cell lysate, HEK-293 cell lysate, MDA-MB-468 cell lysate, A431.

**Subcellular location:** Cytoplasm, Nucleus, Cytoskeleton, Endoplasmic reticulum, Mitochondrion.

**Database links:** SwissProt: P04637 Human

**Recommended Dilutions:**

<b>WB</b>	1:1,000
<b>IF-Cell</b>	1:100

**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:** Immunogen affinity purified.

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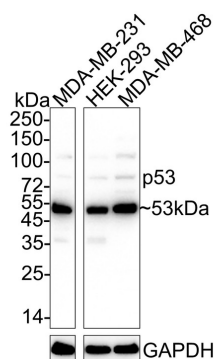
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## Images



**Fig1:** Western blot analysis of p53 on different lysates with Rabbit anti-p53 antibody (R1308-7) at 1/1,000 dilution.

Lane 1: MDA-MB-231 cell lysate

Lane 2: HEK-293 cell lysate

Lane 3: MDA-MB-468 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 53 kDa

Observed band size: 53 kDa

Exposure time: 25 seconds; ECL: K1801;

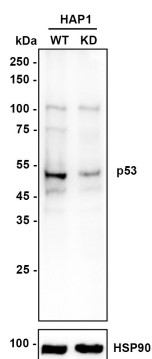
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (R1308-7) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

**Fig2:** Western blot analysis of p53 on different lysates with Rabbit anti-p53 antibody (R1308-7) at 1/2,000 dilution.

Lane 1: HAP1-parental cell lysate

Lane 2: HAP1-p53 KD cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 53 kDa

Observed band size: 53 kDa

Exposure time: 21 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (R1308-7) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

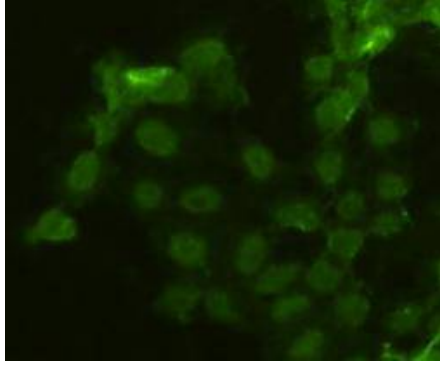
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**Fig3:** Immunofluorescent staining of A431 cells using anti- p53 rabbit polyclonal antibody.

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

### Background References

1. "WOX1 is essential for tumor necrosis factor-, UV light-, staurosporine-, and p53-mediated cell death, and its tyrosine 33-phosphorylated form binds and stabilizes serine 46-phosphorylated p53." Chang N.-S., Doherty J., Ensign A., Schultz L., Hsu L.-J., Hong Q. J. Biol. Chem. 280:43100-43108(2005) "Protein kinase C delta regulates Ser46 phosphorylation of p53 tumor suppressor in the apoptotic response to DNA damage." Yoshida K., Liu H., Miki Y. J. Biol. Chem. 281:5734-5740(2006)

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