

p53

Cat#: ET1601-13

Product Type: Recombinant rabbit monoclonal IgG, primary antibodies

Species reactivity: Human, Zebrafish

Applications: WB, ICC/IF

Molecular Wt.: 44/53 kDa (Human), 41kDa (Zebrafish)

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: Recombinant protein.

Positive control:

A549, SW480, zebrafish tissue lysates.

Subcellular location:

Cytoplasm, Nucleus, Endoplasmic reticulum, Mitochondrion matrix

Database links:

SwissProt: P04637 (Human)

Recommended Dilutions:

WB: 1:1,000-1:5,000

ICC: 1:50-1:200

Storage Buffer:

1*TBS (pH7.4), 1%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:

ProA affinity purified.

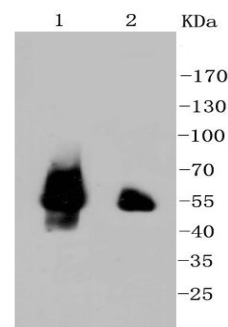


Fig1: Western blot analysis of p53 on different cell lysates using anti-p53 antibody at 1/1,000 dilution.

Positive control:

Lane 1: 293T Lane 2: 293

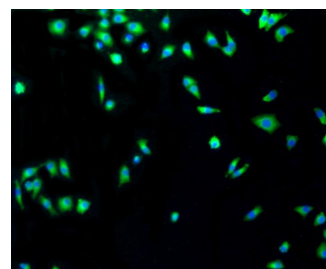


Fig2: ICC staining p53 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

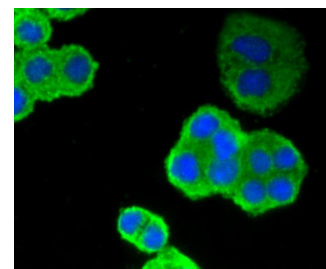


Fig3: ICC staining p53 in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

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Applications: WB=Western blot IP=Immunoprecipitation IHC=Immunohistochemistry IF=Immunofluorescence FC=Flow cytometry
Species Cross-Reactivity: H=human M=mouse R=rat Hm=hamster Mk=monkey Mi=mink C=chicken Dm=D.melanogaster X=Xenopus Z=zebrafish
B=bovine Dg=dog Pg=pig Sc=S.

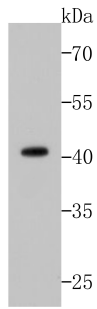


Fig4: Western blot analysis of p53 on zebrafish tissue lysates using anti-p53 antibody at 1/500 dilution.

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).
2. "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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B=bovine Dg=dog Pg=pig Sc=S.