



## Rabbit anti p53 Polyclonal Antibody

**Alternative Name(s): Tumor protein p53; TP53; tumor suppressor phosphoprotein p53**

### Order Information

- **Description:** p53
- **Catalogue:** 500-2014
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms, Rt

### **ANTIGEN PREPARATION**

A synthetic peptide corresponding to the N-terminus of human p53 protein

### **BACKGROUND**

P53, also known as protein 53, or tumor suppressor protein 53, plays important roles in cellular response to DNA damage and other genomic aberration. Mutations in the p53 tumor suppressor gene giving rise to mutant p53 proteins are among the most common genetic alterations associated with tumor cells. P53 protein is phosphorylated at multiple sites in vivo and in vitro in response to different stimuli. UV caused DNA damage can induce Ser9, Ser15, Ser20 phosphorylation while ATM, ATR, DNA-PK at Ser15 and Ser37.

### **PURIFICATION**

The Rabbit IgG is purified by Epitope Affinity Purification

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes ~53 kDa of humanP53 protein. It also reacts with mouse and rat. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

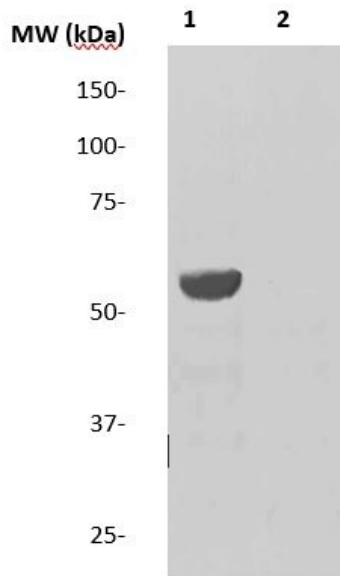
- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 53.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

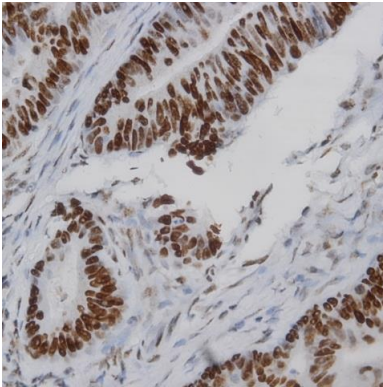
### **FOR RESEARCH USE ONLY.**

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## DATA ATTACHMENTS



Western Blot: The tissue lysate derived from mouse brain was immunoprobed by Rabbit anti-p53 (Cat#500-2014) at 1:500. An immunoreactive band is observed around ~53kDa (Lane 1). The lane 2 is a negative control.



Immunohistochemistry: Human breast tissue was immune-stained with Rabbit Anti-p53 antibody, (Cat# 500-2014) at 1:100 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

## REFERENCES

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