

# Human Phospho-p53 (S20) Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG Catalog Number: AF2286

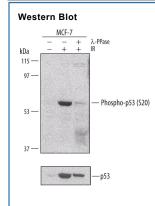
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human p53 when phosphorylated at S20 in Western blots.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Phosphopeptide containing human p53 S20 site
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

#### **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below

# DATA



Detection of Human Phospho-p53 (S20) by Western Blot. Western blot shows p53 immunoprecipitated from lysates of MCF-7 human breast cancer cell line using Human/Mouse/Rat p53 Agarose-conjugated Antigen Affinity-purified Polyclonal Antibody (Catalog # GAF1355). MCF-7 cell line was untreated (-) or exposed (+) to 10 Gy ionizing radiation (IR) for 3 hours. PVDF membrane was probed with 0.5 µg/mL Rabbit Anti-Human Phospho-p53 (S20) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2286) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band for Phospho-p53 (S20) was detected at approximately 55 kDa (as indicated). The phosphospecificity of this antibody was supported by decreased labeling following treatment with 600 U λ-phosphatase (λ-PPase) for 1 hour. For additional reference the membrane was stripped and reprobed with 1:5000 dilution of Human/Mouse/Rat p53 HRPconjugated Antigen Affinity-purified Polyclonal Antibody (lower panel, Catalog # HAF1355) This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

## PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	

#### Stability & Storage

#### Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month from date of receipt, 2 to 8 °C, reconstituted.
- 6 months from date of receipt, -20 to -70 °C, reconstituted.

### BACKGROUND

The p53 tumor suppressor protein acts to enforce cell cycle checkpoints or signal apoptosis in cells that have incurred genotoxic damage. The Chk1 or Chk2 kinases phosphorylate p53 at serine 20 to enforce cell cycle arrest. Serine 20 phosphorylation leads to p53 stabilization and enhances transactivation of p53 target genes.

