

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat p53.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human p53 Asp7-Asp393 Accession # P04637
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

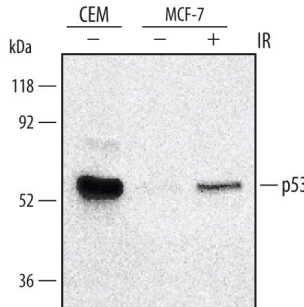
APPLICATIONS

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	0.25 µg/mL	See Below
Chromatin Immunoprecipitation (ChIP)	5 µg/5 x 10 ⁶ cells	See Below
Immunoprecipitation	1-2 µg/500 µg cell lysate	CEM human T-lymphoblastoid cell line, see our available Western blot detection antibodies

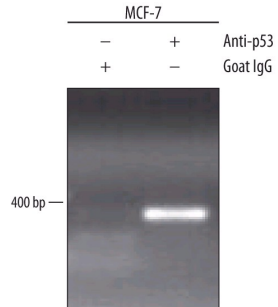
DATA

Western Blot



Detection of Human p53 by Western Blot. Western blot shows lysates of CEM human T-lymphoblastoid cell line and MCF-7 human breast cancer cell line were mock-treated (-) or exposed (+) to 10 Gy ionizing radiation (IR) and harvested after 1 hour. PVDF membrane was probed with 0.5 µg/mL of Human/Mouse/Rat p53 Antigen Affinity-purified Polyclonal Antibody, followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for p53 at approximately 53 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Chromatin Immunoprecipitation (ChIP)



Detection of p53-regulated Genes by Chromatin Immunoprecipitation. MCF-7 human breast cancer cell line treated with 300 nM camptothecin overnight were fixed using formaldehyde, resuspended in lysis buffer, and sonicated to shear chromatin. p53/DNA complexes were immunoprecipitated using 5 µg Goat Anti-Human/Mouse/Rat p53 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1355) or control antibody (Catalog # AB-108-C) for 15 minutes in an ultrasonic bath, followed by Biotinylated Anti-Goat IgG Secondary Antibody (Catalog # BAF109). Immunocomplexes were captured using 50 µL of MagCelect Streptavidin Ferrofluid (Catalog # MAG999) and DNA was purified using chelating resin solution. The p21 promoter was detected by standard PCR.

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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.