

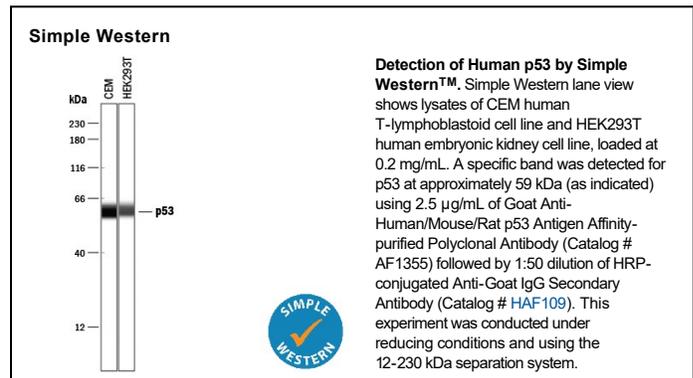
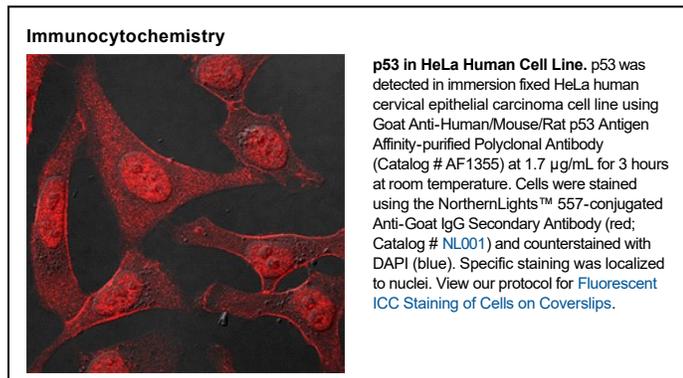
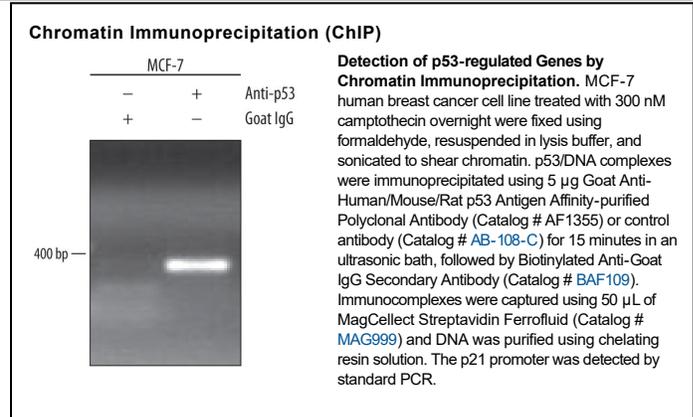
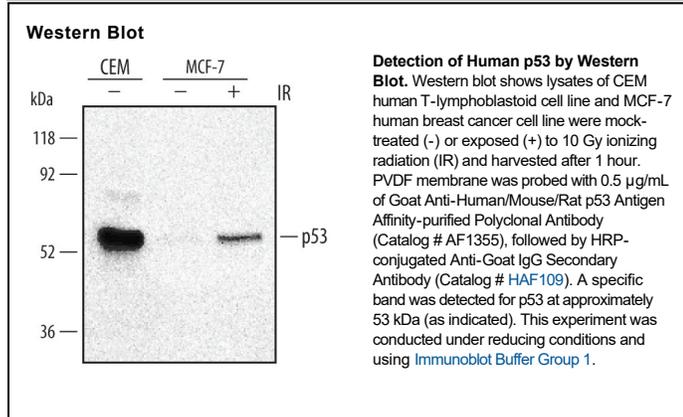
DESCRIPTION	
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat p53.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human p53 Asp7-Asp393 Accession # P04637
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

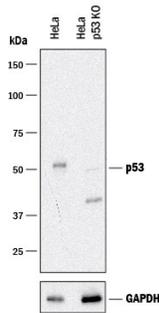
Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.25 µg/mL	See Below
Chromatin Immunoprecipitation (ChIP)	5 µg/5 x 10 ⁶ cells	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Immunoprecipitation	1-2 µg/500 µg cell lysate	CEM human T-lymphoblastoid cell line, see our available Western blot detection antibodies
Simple Western	2.5 µg/mL	See Below
Knockout Validated	p53 is specifically detected in HeLa human cervical epithelial carcinoma parental cell line but is not detectable in p53 knockout HeLa cell line.	

DATA



Knockout Validated



Western Blot Shows Human p53 Specificity by Using Knockout Cell Line.
Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and p53 knockout HeLa cell line (KO). PVDF membrane was probed with 0.25 µg/mL of Goat Anti-Human/Mouse/Rat p53 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1355) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for p53 at approximately 53 kDa (as indicated) in the parental HeLa cell line, but is not detectable in knockout HeLa cell line. GAPDH (Catalog # AF5718) is shown as a loading control. 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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <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.

BACKGROUND

The p53 tumor suppressor protein is a multi-functional transcription factor that regulates cellular decisions regarding proliferation, cell cycle checkpoints, and apoptosis. The importance of p53 is underscored by its mutation in over 50% of human cancers. Mice that lack one or both copies of p53 also showed an increased incidence of tumors, which makes the p53 deficient mouse a model system for studying cancer generation and progression.