

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human, monkey, and rat p53 when phosphorylated at S15 and mouse p53 when phosphorylated at S18.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Phosphopeptide containing human p53 S15 site
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 as a 0.2 µm filtered solution in PBS.

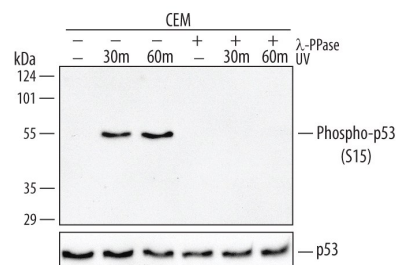
APPLICATIONS

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	0.2 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	Immersion fixed U2OS human osteosarcoma cell line
Immunohistochemistry	5-15 µg/mL	See Below
Immunoprecipitation	1 µg/500 µg cell lysate	CEM human T-lymphoblastoid cell line exposed to UV-C and MCF-7 human breast cancer cell line treated with camptothecin (CPT), see our available Western blot detection antibodies

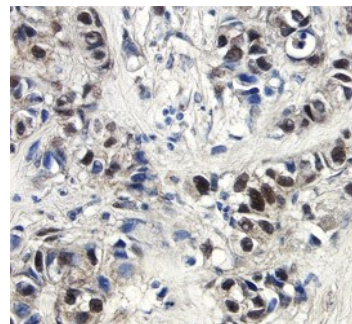
DATA

Western Blot



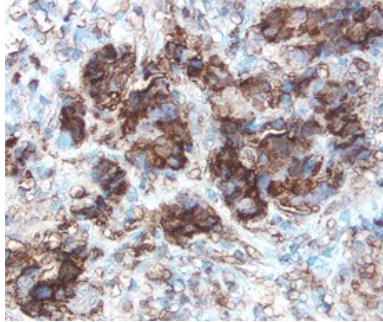
Detection of Human Phospho-p53 (S15) by Western Blot. Western blot shows lysates of CEM human T-lymphoblastoid cell line untreated or exposed to 100 J/m² UV-C for the indicated time. PVDF membrane was probed with 0.2 µg/mL Human Phospho-p53 (S15) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1043) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band for Phospho-p53 (S15) was detected at approximately 53 kDa (as indicated). The phospho-specificity of this antibody was supported by decreased labeling following treatment with 600 U λ-phosphatase (λ-PPase) for 1 hour. For additional reference, duplicate lysates were probed with 1:5000 dilution Human/Mouse/Rat p53 HRP-conjugated Antigen Affinity-purified Polyclonal Antibody (*lower panel*, Catalog # HAF1355). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



p53 in Human Breast Cancer Tissue. p53 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Human Phospho-p53 (S15) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1043) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rabbit HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS005) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Immersion fixed paraffin-embedded Tissue Sections](#).

Immunohistochemistry



p53 in Human Breast Cancer Tissue. p53 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Human Phospho-p53 (S15) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1043) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rabbit HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS005) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of immersion fixed paraffin-embedded Tissue Sections](#).

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	<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.