Human Phospho-p53 (S46) Antibody

Recombinant Monoclonal Rabbit IgG Clone # 1022G
Catalog Number: MAB1489

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human phospho-p53 (S46) in Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1022G
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Phosphopeptide containing the human p53 S46 site
Formulation	Supplied as a solution in PBS containing BSA, Glycerol and Sodium Azide. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

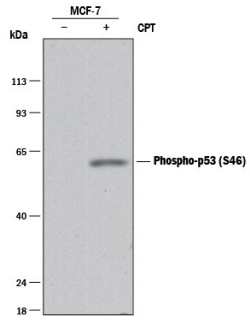
APPLICATIONS

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	1:1000 dilution	See Below

DATA

Western Blot



Detection of Human Phospho-p53 (S46) by Western Blot. Western blot shows lysates of MCF-7 human breast cancer cell line untreated (-) or treated (+) with 1 µM Camptothecin (CPT) for 5 hours. PVDF membrane was probed with 1:1000 dilution of Rabbit Anti-Human Phospho-p53 (S46) Monoclonal Antibody (Catalog # MAB1489) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for phospho-p53 (S46) at approximately 53 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Shipping

The product is shipped with polar packs. 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

- 12 months from date of receipt, -20 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after opening.
- 6 months, -20 °C under sterile conditions after opening.

BACKGROUND

The p53 tumor suppressor protein signals apoptosis in cells that have incurred irreparable genotoxic damage. Phosphorylation of p53 at serine 46 is a critical event leading to the cellular decision to undergo apoptosis rather than cell cycle arrest. Serine 46 can be phosphorylated by either the p38 MAP kinase or the Homeodomain-Interacting Protein Kinase 2 (HIPK2).

PRODUCT SPECIFIC NOTICES

* Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to SDS for additional information and handling instructions.

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