

Human/Mouse/Rat p53 Antibody

Monoclonal Mouse IgG_{2B} Clone # 184721

Catalog Number: MAB1355

DESCRIPTION			
Species Reactivity	Human/Mouse/Rat		
Specificity	Detects human, mouse, and rat p53.		
Source	Monoclonal Mouse IgG _{2B} Clone # 184721		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-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	1 μg/mL	See Below
Immunocytochemistry	8-25 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

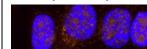
DATA

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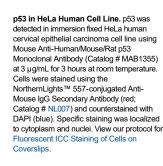
Western Blot MCF-7 anti-p53 kDa 118 92 p53 52 36 29

Detection of Human p53 by Western Blot.

Western blot shows lysates of MCF-7 human breast cancer cell line mock-treated (-) or treated (+) with 1 µM camptothecin (CPT) for 1 hour. Human p53 was immunoprecipitated using Mouse Anti-Human/Mouse/Rat p53 Monoclonal Antibody (Catalog # MAB1355). PVDF membrane was probed with HRP-conjugated Anti-Human/Mouse/Rat Polyclonal Antibody (Catalog # HAF1355). A specific band for p53 was detected at approximately 53 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Immunocytochemistry



PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 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.

- 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.

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.

Rev. 2/7/2018 Page 1 of 1

