# biotechne<sup>®</sup> RDSYSTEMS

# Human p53 Antibody

Monoclonal Mouse IgG<sub>2B</sub> Clone # 184727 Catalog Number: MAB13551

### DESCRIPTION

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human p53.
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 184727
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli-</i> derived recombinant human p53 Asp7-Asp393 Accession # P04637
Formulation	I vophilized from a 0.2 µm filtered solution in PBS with Trehalose

#### APPLICATIONS

Please Note: Optimal dilutions should be determined by ea	ch laboratory for each application. General Protoco	ols are available in the Technical Information section on our website.
	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25 µg/10 <sup>6</sup> cells	MCF-7 human breast cancer cell line fixed and permeabilized with FlowX FoxP3 Fixation and Permeabilization Buffer kit
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

# DATA



Detection of p53 in MCF-7 cells by Flow Cytometry MCF-7 cells were stained with Mouse Anti-Human p53 Monoclonal Antibody (Catalog # MAB13551, filled histogram) or isotype control antibody (Catalog # MAB004, open histogram) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012). View our protocol for Staining Intracellular Molecules.

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.		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.		
	<ul> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> </ul>		
	<ul> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> </ul>		
	<ul> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>		

## 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.

