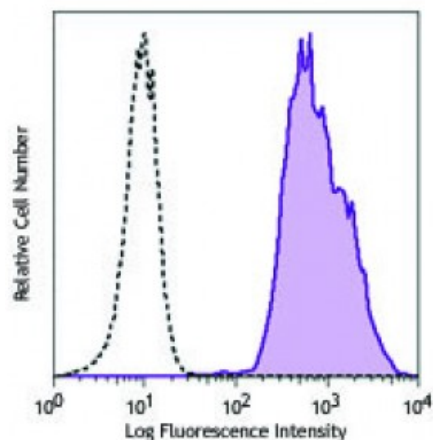


**PE anti-p53**

<b>Catalog # / Size:</b>	3829030 / 100 tests 3829025 / 25 tests
<b>Clone:</b>	DO-7
<b>Isotype:</b>	Mouse IgG2b
<b>Immunogen:</b>	p53 N-terminal linear epitope aa 20-25
<b>Reactivity:</b>	Human
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Concentration:</b>	Lot-specific



A431 human breast cancer cell line was fixed and permeabilized with Nuclear Factor Fixation and Permeabilization Buffer Set (Cat. No. 422601), and then stained with p53 (clone DO-7) PE (filled histogram) or mouse IgG2b,  $\kappa$  PE isotype control (open hi

**Applications:**

<b>Applications:</b>	Flow Cytometry
<b>Recommended Usage:</b>	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining using our nuclear factor staining protocol. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application References:</b>	1. Vojtesek B, <i>et al.</i> 1992. <i>J. Immunol. Methods</i> 151:237. 2. Stephen CW, <i>et al.</i> 1995. <i>J. Mol. Biol.</i> 248:58.

**Description:** p53 is a 53 kD protein that forms tetramers and functions as a tumor suppressor and transcriptional activator of genes that inhibit growth and/or invasion, cell cycle checkpoint after irradiation, DNA repair, apoptotic induction, signal transduction, and cell adhesion. This protein is localized to the nucleus when activated and can be upregulated by genotoxic or other cellular stresses. p53 is modified by phosphorylation, acetylation, ribosylation, ubiquitination, and sumoylation; ubiquitination targets p53 for degradation via mdm2. This protein interacts with a variety of proteins including mdm2, mdmx, topoisomerase I, PML3, Bcl-X<sub>L</sub>, Bcl-2, Chk1, JNK, p38, HIPK2, CK2, DNA-PK, p300/CBP, PCAF, PARP1, and HDAC1-3. Mutant p53 associates with p63 and p73.