

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human p53 phosphorylated at S15. No cross-reactivity with human p53 that is unphosphorylated at S15 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 261366
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing the human p53 S15 site Accession # P04637
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ cells	MCF-7 human breast cancer cell line treated with camptothecin fixed with paraformaldehyde and permeabilized with saponin

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage **Protect from light. Do not freeze.**

- 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

The p53 tumor suppressor protein acts to enforce cell cycle checkpoints or signal apoptosis in cells that have incurred genotoxic damage. The ATM or ATR kinases can phosphorylate p53 at serine 15 to enforce cell cycle arrest. Serine 15 phosphorylation leads to p53 stabilization and enhances transactivation of p53 target genes.

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