

DESCRIPTION

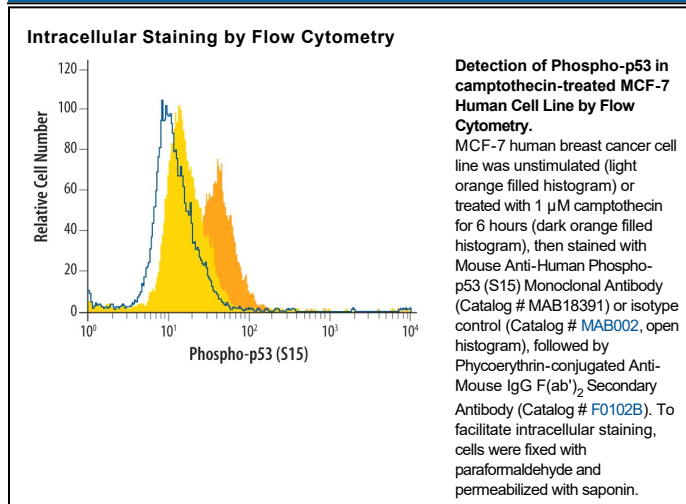
| | |
|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human p53 phosphorylated at S15. No cross-reactivity with human p53 that is unphosphorylated at S15 is observed. |
| Source | Monoclonal Mouse IgG ₁ Clone # 261366 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Phosphopeptide containing the human p53 S15 site Accession # P04637 |
| 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 |
|---|--|---|
| Immunocytochemistry | 8-25 µg/mL | Immersion fixed U2OS human osteosarcoma cell line |
| Intracellular Staining by Flow Cytometry | 2.5 µg/10 ⁶ cells | See Below |
| CyTOF-ready | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. | |

DATA



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. <ul style="list-style-type: none"> • 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. |

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.