

Product datasheet for **SM2137B**

p53 (TP53) (20-25) Mouse Monoclonal Antibody [Clone ID: DO-1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	DO-1
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl of neat antibody to label 1x10 ⁶ cells in 100 µl. Membrane permeabilization is required for this application.
Reactivity:	Bovine, Equine, Feline, Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant Human p53. Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63Ag8.653 myeloma cell line.
Specificity:	This antibody recognizes the p53 tumour suppressor protein, binding to both wild type and mutant forms. Clone DO-1 binds to both wild type and mutant forms of the p53 protein found in various malignancies (Kern et al. 1992). p53 is important in multicellular organisms, where it regulates cell cycle progression to allow DNA repair or apoptosis in the case of irreparably damaged cells (Haupt et al. 2003) and thus functions as a tumor suppressor that is involved in preventing cancer. Mutations in the p53 gene are found in about half the cases of human cancer (Joerger and Fersht 2007). DO-1 recognizes an epitope at the N-terminal end of p53 between amino acids 20-25, common to isoforms 1-3 of p53. Negative Species: Mouse, Rat.
Formulation:	PBS, pH 7.4 Label: Biotin State: Liquid purified IgG fraction Stabilizer: 1% BSA Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G



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Conjugation:	Biotin
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	tumor protein p53
Database Link:	Entrez Gene 7157 Human P04637
Synonyms:	Cellular tumor antigen p53, Tumor suppressor p53, Phosphoprotein p53, NY-CO-13