

Product datasheet for **BM4079F**

p53 (TP53) (16-25) Mouse Monoclonal Antibody [Clone ID: BP53-12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	BP53-12
Applications:	FC
Recommended Dilution:	Flow cytometry: Recommended dilution: 3 µg/ml. Intracellular staining.
Reactivity:	Human, Primate
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Bacterially expressed full-length wild-type p53.
Specificity:	This Monoclonal antibody <i>BP53-12</i> recognizes defined epitope (aa 16-25) on Human p53, a 50 kDa tumour suppressor found in increased amounts in a wide variety of transformed cells. It is frequently mutated or inactivated in many types of cancer.
Formulation:	Phosphate buffered saline (PBS), pH~7.4 Label: FITC State: Liquid purified Ig fraction Preservative: 15 mM Sodium Azide Label: Fluorescein Isothiocyanate. The reagent is free of unconjugated FITC.
Concentration:	lot specific
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	tumor protein p53
Database Link:	Entrez Gene 7157 Human P04637



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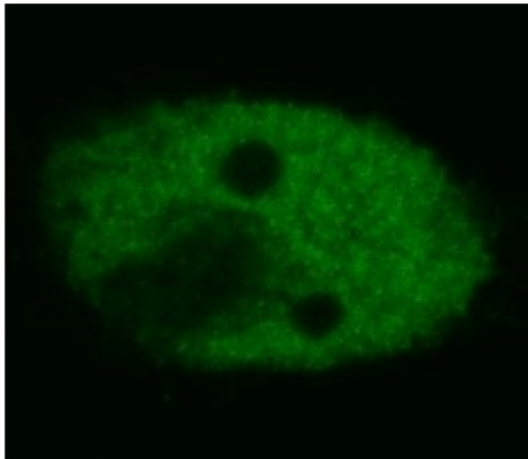
Background:

The tumour suppressor protein p53 is a key element of intracellular anticancer protection. It mediates cell cycle arrest or apoptosis in response to DNA damage or to starvation for pyrimidine nucleotides. It is up-regulated in response to these stress signals and stimulated to activate transcription of specific genes, resulting in expression of p21waf1 and other proteins involved in G1 or G2/M arrest, or proteins that trigger apoptosis, such as Bcl-2. The structure of p53 comprises N-terminal transactivation domain, central DNA-binding domain, oligomerisation domain, and C-terminal regulatory domain. There are various phosphorylation sites on p53, of which the phosphorylation at Ser15 is important for p53 activation and stabilization.

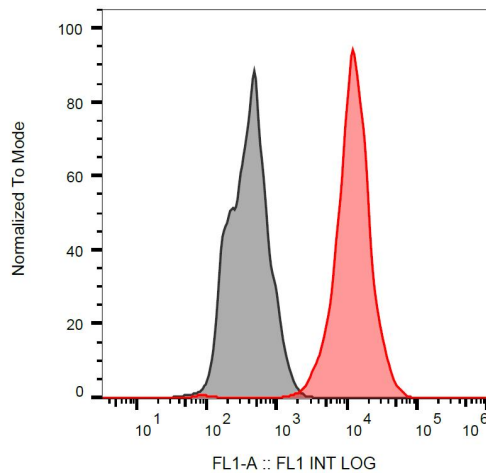
Synonyms:

Cellular tumor antigen p53, Tumor suppressor p53, Phosphoprotein p53, NY-CO-13

Product images:



Confocal Microscopy of Human HeLa cells using p53 antibody (BP53-12, FITC). The expression of p53 protein was enhanced by intercalating reagent. Cells were fixed and permeabilized before incubation with the p53-FITC antibody. Photo provided by Dr. Hodny, Inst. of Experimental Medicine, Prague, Czech Republic.



Intracellular staining of p53 in RAMOS cells with anti-p53 (BP53-12) FITC.