

## Anti-p53 Antibody [SPM349] (A250187)

### Specifications:

Name:	Anti-p53 Antibody [SPM349]
Description:	Mouse monoclonal [SPM349] antibody to p53.
Specificity:	The specificity of this monoclonal antibody to its intended target was tested by HuProt™ Array, containing more than 19,000 full-length human proteins. SPM349 binds to the C-terminus (aa213-217) of both wild type and mutated p53. Mutation and/or allelic loss of p53 is one of the causes of a variety of mesenchymal and epithelial tumors. If it occurs in the germ line, such tumors run in families. p53 Binds to a DNA consensus sequence, the p53 response element, and it regulates normal cell growth cycle events by activating transcription of genes, involved either in progression through the cycle, or causing arrest in G1 when the genome is damaged. In most transformed and tumor cells the concentration of p53 is increased 51000 fold over the minute concentrations (1000 molecules cell) in normal cells, principally due to the increased half-life (4 h) compared to that of the wild-type (20 min). p53 Localizes in the nucleus, but is detectable at the plasma membrane during mitosis and when certain mutations modulate cytoplasmic/nuclear distribution. p53 Is the most commonly mutated gene in spontaneously occurring human cancers. Mutations arise with an average frequency of 70% but incidence varies from zero in carcinoid lung tumors to 97% in primary melanomas. High concentrations of p53 protein are transiently expressed in human epidermis and superficial dermal fibroblasts following mild ultraviolet irradiation.
Applications:	Flow Cytometry, IF, WB, IHC
Recommended Dilutions:	Flow Cytometry: 1-2 µg/million cells, IF: 1-2 µg/ml, WB: 1-2 µg/ml, IHC: 1-2 µg/ml
Reactivity:	Human, Monkey, Bovine, Canine, Mouse, Rat, Hamster
Immunogen:	Gel-purified p53-beta Galactosidase fusion protein containing murine p53 from amino acids 14-389.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	SPM349
Isotype:	IgG1
Light Chains:	kappa
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	200 µg/ml

## Anti-p53 Antibody [SPM349] (A250187)

### Specifications continued:

Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
General Notes:	This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-p53 Antibody [SPM349] - BSA and Azide free (A253367).
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.