

Anti-p53 (PAb 122)

Type	Size	Catalog number
unconjugated	100µg	102101

Antigen:	p53
Immunogen:	SV40-transformed, 3T3 clone 4 mouse cells
Host/Isotype:	Mouse IgG2b, κ
Reactivity:	Human (predicted Mouse, Rat, Dog)
Purity:	>90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation:	PBS, pH7.2, 0.09%NaN ₃
Storage:	Store at 2-8°C for 12 months
Applications:	WB

Antigen Information

p53, a DNA-binding, oligomerization domain- and transcription activation domain-containing tumor suppressor, upregulates growth arrest and apoptosis-related genes in response to stress signals, thereby influencing programmed cell death, cell differentiation, and cell cycle control mechanisms. p53 localizes in the nucleus and can be chaperoned to the cytoplasm by the negative regulator, MDM2. p53 fluctuates between latent and active DNA-binding conformations and is differentially activated through post-translational modifications, including phosphorylation and acetylation.

p53 antibody (PAb 122) is a mouse monoclonal IgG2b raised against SV40-transformed, 3T3 clone 4 mouse cells. The p53 epitope location was mapped to amino acids 371 - 378 of p53 and recommended for detection of a conserved, denaturation-resistant determinant of the p53 protein of mouse, rat and human origin by WB.

References

1. Gurney EG, Harrison RO and Fenno J (1980) Monoclonal antibodies against simian virus 40 T antigens: evidence for distinct subclasses of large T antigen and for similarities among nonviral T antigens. *J. Virol.* 34: 752-763.
2. Wade-Evans A and Jenkins JR (1985) Precise epitope mapping of the murine transformation-associated protein, p53. *EMBO J.* 4: 699-706.
3. Stephen, C. W., Helminen, P., and Lane, D. P. (1995). Characterisation of epitopes on human p53 using phage-displayed peptide libraries: insights into antibody peptide interactions. *J Mol Biol* 248, 58-78.

Terms and Conditions

This product is for research use only (RUO) and not intended for diagnostic testing.